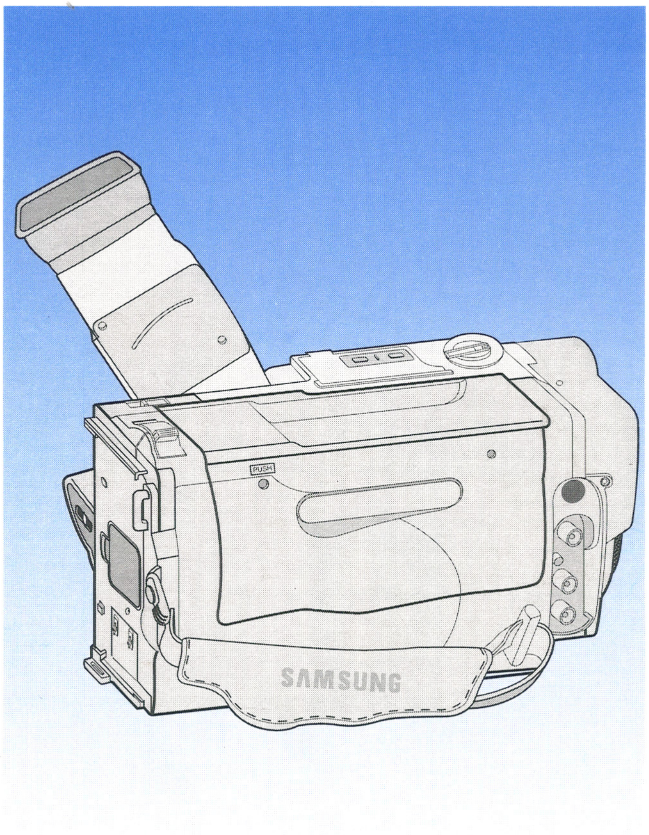
8mm CAMCORDER

VP-A12/VP-A15
VP-A17/VP-A18

SERVICE Manual

For mechanical disassembly and adjustment, refer to the "Mechanical Manual" (DE-6 ⟶ AD68-30200A).

8mm CAMCORDER



CONTENTS

1. Precautions
2. Reference Information
3. Product Specifications and Comparison Chart
4. Disassembly and Reassembly
5. Alignment and Adjustment
6. Exploded View and Parts List
7. Electrical Parts List
8. Block Diagrams
9. PCB Diagrams
10. Wiring Diagram
11. Schematic Diagrams

UPDATE LOG SHEET

Application Data	Page	Part #	Note(Cause & Solution)	S/Bulletin #

Use this page to keep any special servicing information. (Service Bulletin, etc.)
If only parts number changes, Just change parts number directly on parts list.
And if you need more information, please see the service bulletin

1. Precautions

1. Be sure that all of the built-in protective devices are replaced. Restore any missing protective shields.

2. When reinstalling the chassis and its assemblies, be sure to restore all protective devices, including : control knobs and compartment covers.

3. Make sure that there are no cabinet openings through which people--particularly children --might insert fingers and contact dangerous voltages. Such openings include the spacing between the picture tube and the cabinet mask, excessively wide cabinet ventilation slots, and improperly fitted back covers.

   If the measured resistance is less than 1.0 megohm or greater than 5.2 megohms, an abnormality exists that must be corrected before the unit is returned to the customer.

4. Leakage Current Hot Check (See Fig. 1) :
   Warning : Do not use an isolation transformer during this test. Use a leakage current tester or a metering system that complies with American National Standards Institute (ANSI C101.1, *Leakage Current for Appliances*), and Underwriters Laboratories (*UL Publication UL1410, 59.7*).

5. With the unit completely reassembled, plug the AC line cord directly the power outlet. With the unit's AC switch first in the ON position and then OFF, measure the current between a known earth ground (metal water pipe, conduit, etc.) and all exposed metal parts, including : antennas, handle brackets, metal cabinets, screwheads and control shafts. The current measured should not exceed 0.5 milliamp. Reverse the power-plug prongs in the AC outlet and repeat the test.

6. X-ray Limits :
   The picture tube is designed to prohibit X-ray emissions. To ensure continued X-ray protection, replace the picture tube only with one that is the same type as the original.

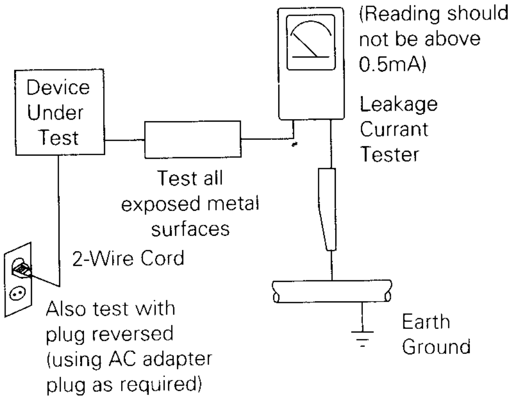

(Reading should not be above 0.5mA)
Device Under Test
Leakage Currant Tester
Test all exposed metal surfaces
2-Wire Cord
Also test with plug reversed (using AC adapter plug as required)
Earth Ground

Fig. 1 AC Leakage Test

7. Antenna Cold Check :
   With the unit's AC plug disconnected from the AC source, connect an electrical jumper across the two AC prongs. Connect one lead of the ohmmeter to an AC prong.
   Connect the other lead to the coaxial connector.

8. High Voltage Limit :
   High voltage must be measured each time servicing is done on the B+, horizontal deflection or high voltage circuits.

   Heed the high voltage limits. These include the *X-ray protection Specifications Label*, and the *Product Safety and X-ray Warning Note* on the service data schematic.

9. Some semiconductor ("solid state") devices are easily damaged by static electricity.
   Such components are called Electrostatically Sensitive Devices (ESDs); examples include integrated circuits and some field-effect transistors. The following techniques will reduce the occurrence of component damage caused by static electricity.

10. Immediately before handling any semiconductor components or assemblies, drain the electrostatic charge from your body by touching a known earth ground. Alternatively, wear a discharging Wrist-strap device. (Be sure to remove it prior to applying power--this is an electric shock precaution.)

11. High voltage is maintained within specified limits by close-tolerance, safety-related components and adjustments. If the high voltage exceeds the specified limits, check each of the special components.

12. Design Alteration Warning :
    Never alter or add to the mechanical or electrical design of this unit. Example : Do not add auxiliary audio or video connectors. Such alterations might create a safety hazard. Also, any design changes or additions will void the manufacturer's warranty.

13. Hot Chassis Warning :
    Some TV receiver chassis are electrically connected directly to one conductor of the AC power cord. If an isolation transformer is not used, these units may be safely serviced only if the AC power plug is inserted so that the chassis is connected to the ground side of the AC source.

    To confirm that the AC power plug is inserted correctly, do the following : Using an AC voltmeter, measure the voltage between the chassis and a known earth ground. If the reading is greater than 1.0V, remove the AC power plug, reverse its polarity and reinsert. Re-measure the voltage between the chassis and ground.

14. Some TV chassis are designed to operate with 85 volts AC between chassis and ground, *regardless of the AC plug polarity*. These units can be safely serviced *only* if an isolation transformer inserted between the receiver and the power source.

15. Never defeat any of the B+ voltage interlocks. Do not apply AC power to the unit (or any of its assemblies) unless all solid-state heat sinks are correctly installed.

16. Always connect a test instrument's ground lead to the instrument chassis ground *before* connecting the positive lead; always remove the instrument's ground lead last.

17. Observe the original lead dress, especially near the following areas : Antenna wiring, sharp edges, and especially the AC and high voltage power supplies. Always inspect for pinched, out-of-place, or frayed wiring. Do not change the spacing between components and the printed circuit board. Check the AC power cord for damage. Make sure that leads and components do not touch thermally hot parts.

18. Picture Tube Implosion Warning :
    The picture tube in this receiver employs "integral implosion" protection. To ensure continued implosion protection, make sure that the replacement picture tube is the same as the original.

19. Do not remove, install or handle the picture tube without first putting on shatterproof goggles equipped with side shields. Never handle the picture tube by its neck. Some "in-line" picture tubes are equipped with a permanently attached deflection yoke; do not try to remove such "permanently attached" yokes from the picture tube.

20. Product Safety Notice :
    Some electrical and mechanical parts have special safety-related characteristics which might not be obvious from visual inspection. These safety features and the protection they give might be lost if the replacement component differs from the original--even if the replacement is rated for higher voltage, wattage, etc.

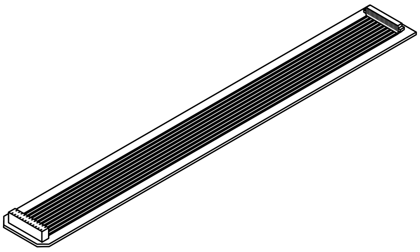
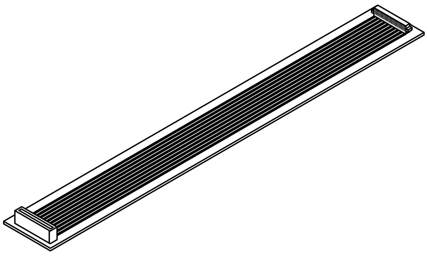
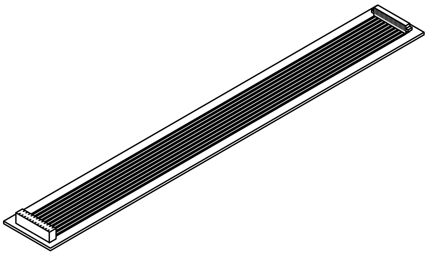
    Components that are critical for safety are indicated in the circuit diagram by shading, (⚡ or ⚠).
    Use replacement components that have the same ratings, especially for flame resistance and dielectric strength specifications. A replacement part that does not have the same safety characteristics as the original might create shock, fire or other hazards.

2. Reference Information

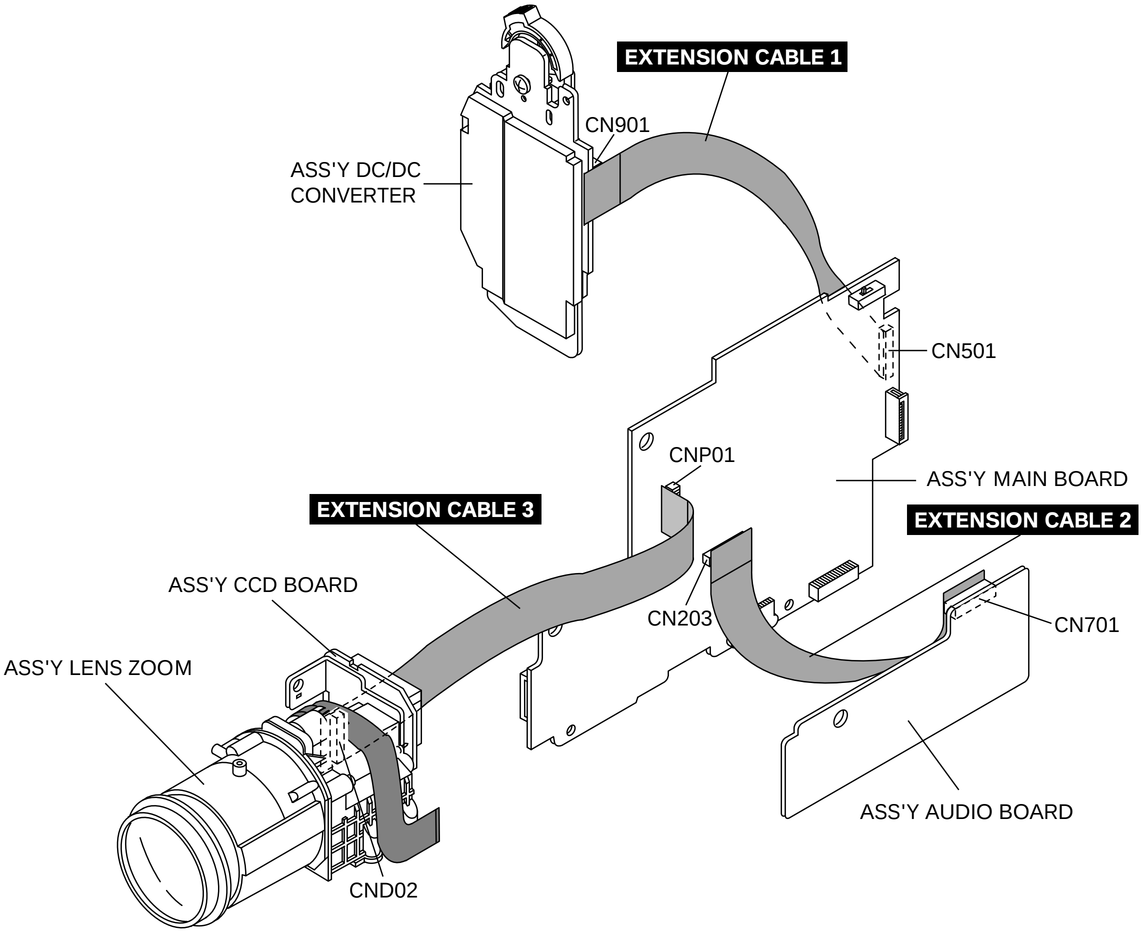
2-1 Servicing Jigs and Special Tools

2-1-1 Servicing Jigs

Part No.	Jig Item	Specification	Description				Remarks
			Main board	CCD board	DC/DC Converter board	Audio board	
68140-500-037	Extension Cable 1	Pin 36	CN501 ◄		► CN901		Troubleshooting
68140-500-035	Extension Cable 2	Pin 40	CN203 ◄			► CN701	Troubleshooting
68140-500-038	Extension Cable 3	Pin 40	CNP01 ◄	► CND02			Troubleshooting

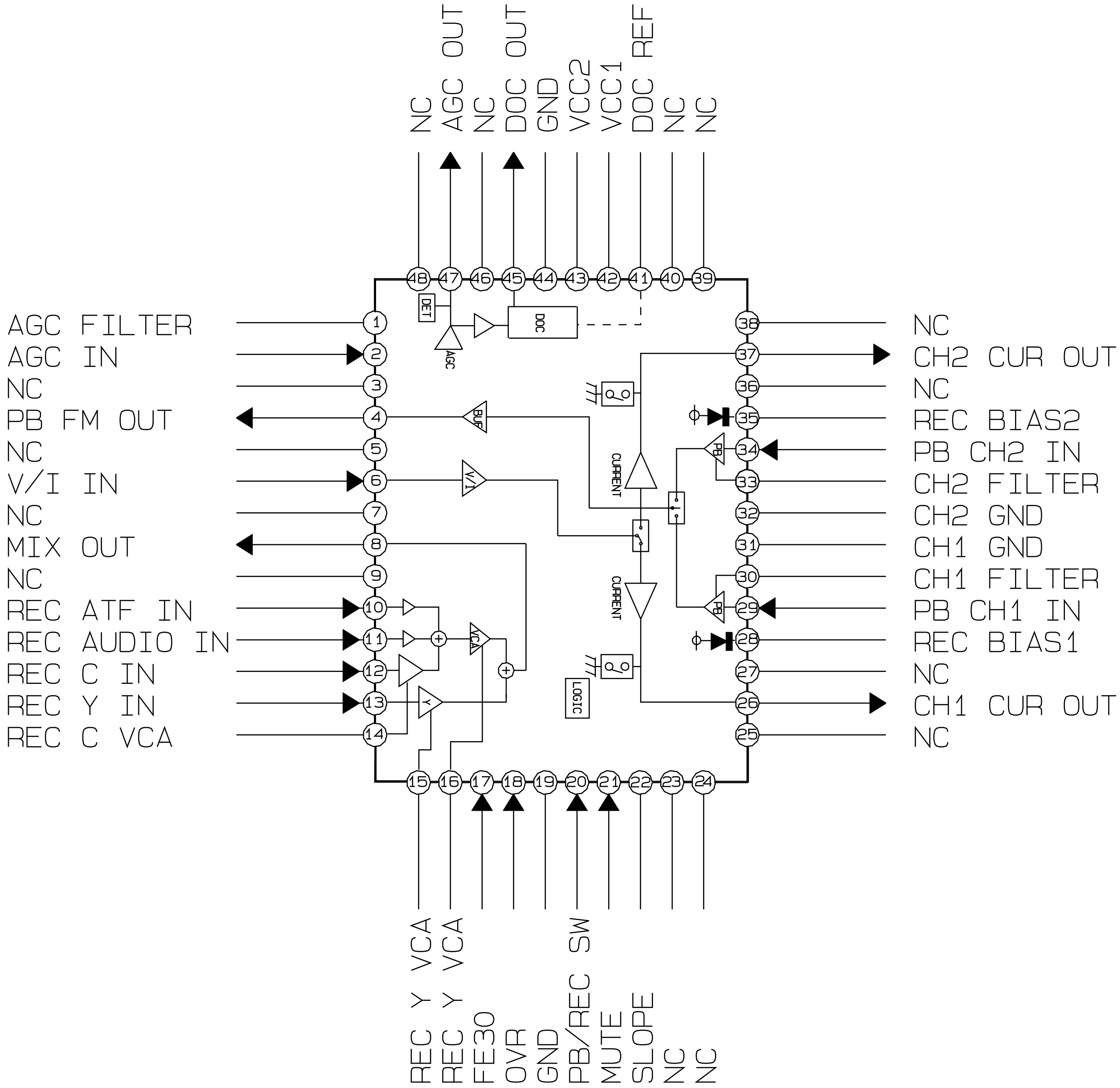
68140-500-033	68140-500-035	68140-500-038
Extension Cable 1 	Extension Cable 2 	Extension Cable 3 

2-4-2 Extension Cable Connections

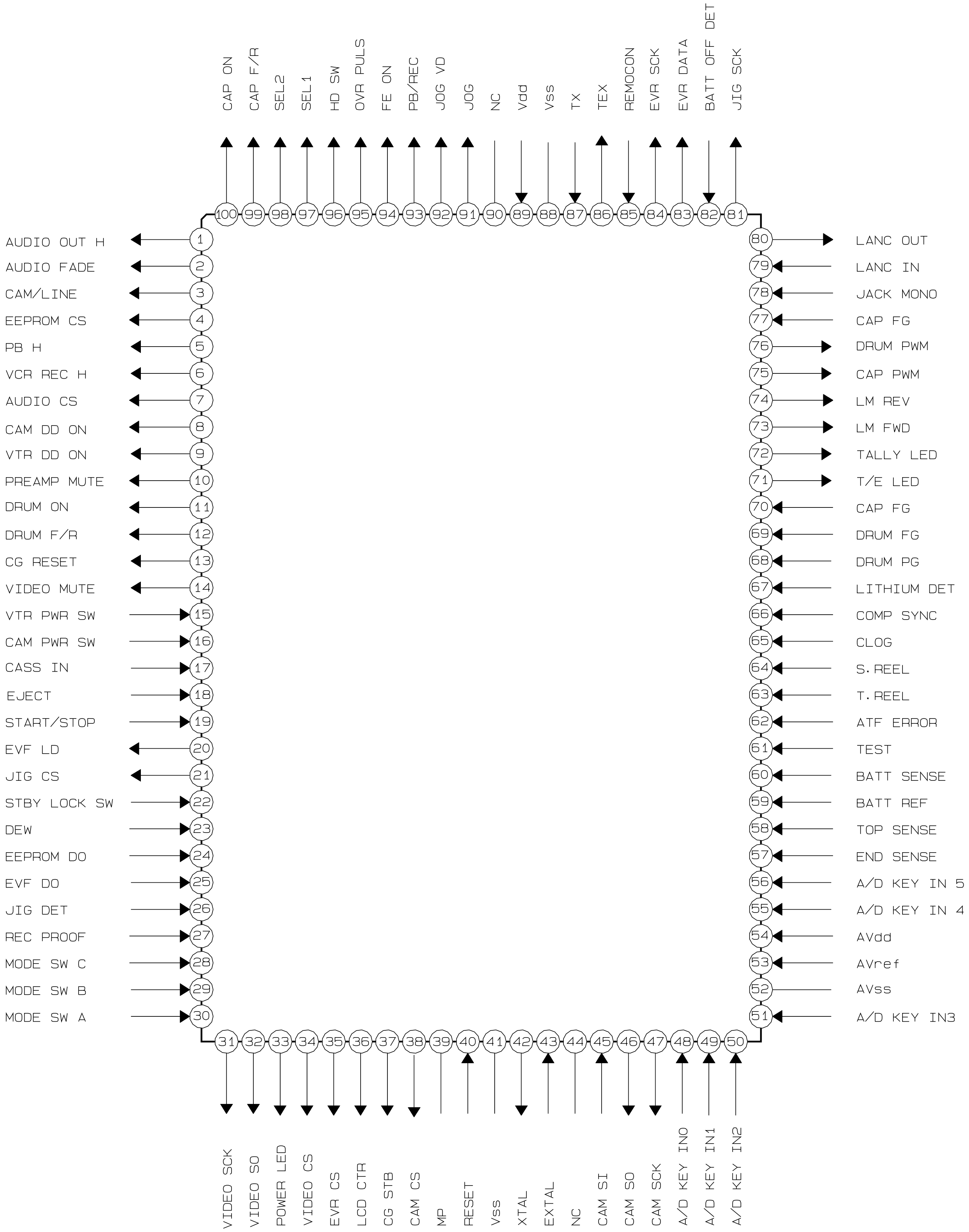

EXTENSION CABLE 1
CN901
ASS'Y DC/DC CONVERTER
CN501
CNP01
ASS'Y MAIN BOARD
EXTENSION CABLE 3
EXTENSION CABLE 2
ASS'Y CCD BOARD
CN203
CN701
ASS'Y LENS ZOOM
ASS'Y AUDIO BOARD
CND02

2-2 IC Blocks

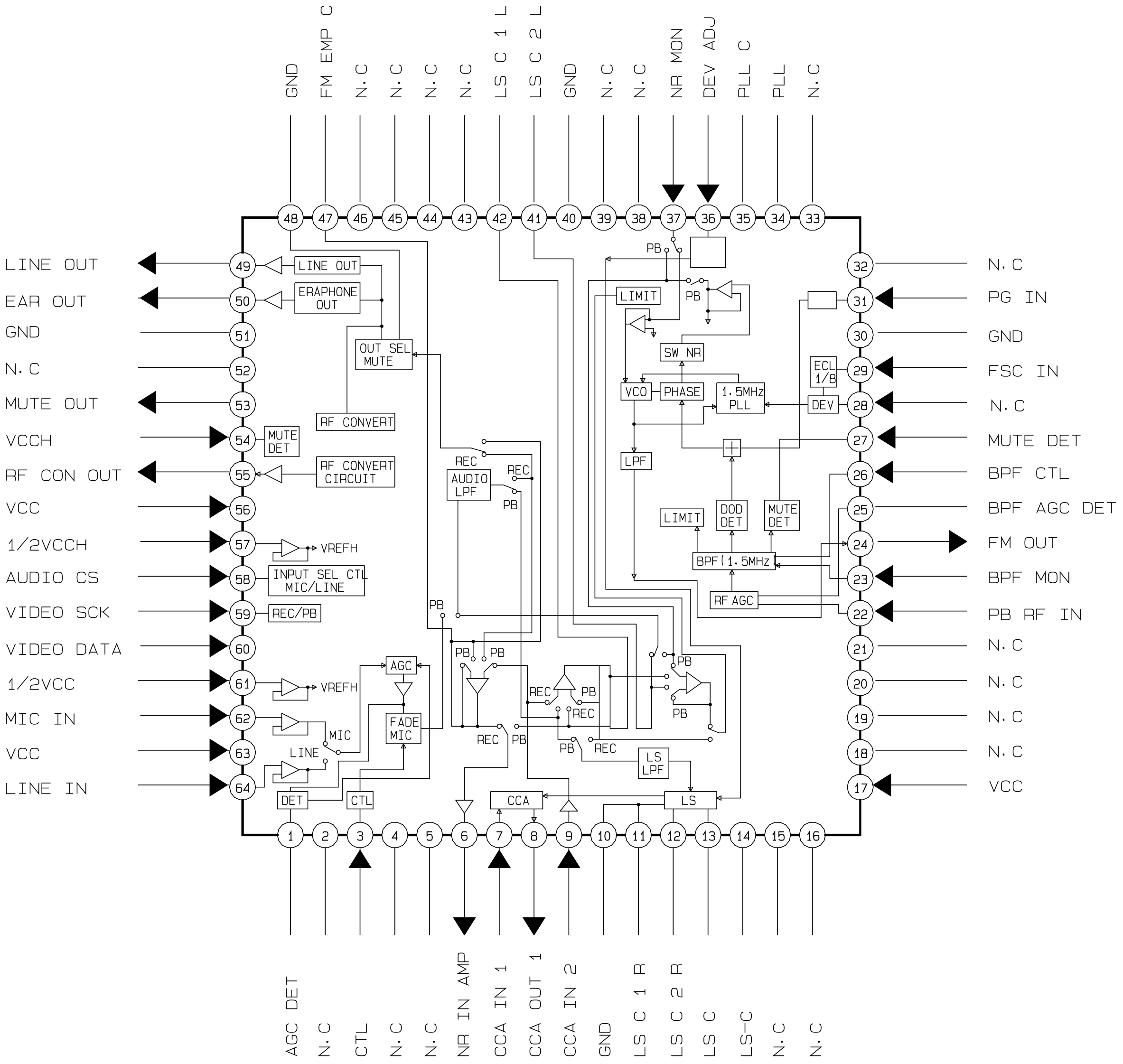
2-2-1 IC101(M52369FP)


NC
AGC OUT
NC
DOC OUT
GND
VCC2
VCC1
DOC REF
NC
NC
48
47
46
45
44
43
42
41
40
39
AGC FILTER
AGC IN
NC
PB FM OUT
NC
V/I IN
NC
MIX OUT
NC
REC ATF IN
REC AUDIO IN
REC C IN
REC Y IN
REC C VCA
1
2
3
4
5
6
7
8
9
10
11
12
13
14
DET
DOC
AGC
BUF
V/I
CURRENT
CURRENT
PB
PB
VCA
Y
LOGIC
38
37
36
35
34
33
32
31
30
29
28
27
26
25
NC
CH2 CUR OUT
NC
REC BIAS2
PB CH2 IN
CH2 FILTER
CH2 GND
CH1 GND
CH1 FILTER
PB CH1 IN
REC BIAS1
NC
CH1 CUR OUT
NC
15
16
17
18
19
20
21
22
23
24
REC Y VCA
REC Y VCA
FE30
OVR
GND
PB/REC SW
MUTE
SLOPE
NC
NC

2-2-2 IC601(CXP87240A)


CAP ON 100
CAP F/R 99
SEL2 98
SEL1 97
HD SW 96
OVR PULS 95
FE ON 94
PB/REC 93
JOG VD 92
JOG 91
NC 90
Vdd 89
Vss 88
TX 87
TEX 86
REMOCON 85
EVR SCK 84
EVR DATA 83
BATT OFF DET 82
JIG SCK 81
AUDIO OUT H 1
AUDIO FADE 2
CAM/LINE 3
EEPROM CS 4
PB H 5
VCR REC H 6
AUDIO CS 7
CAM DD ON 8
VTR DD ON 9
PREAMP MUTE 10
DRUM ON 11
DRUM F/R 12
CG RESET 13
VIDEO MUTE 14
VTR PWR SW 15
CAM PWR SW 16
CASS IN 17
EJECT 18
START/STOP 19
EVF LD 20
JIG CS 21
STBY LOCK SW 22
DEW 23
EEPROM DO 24
EVF DO 25
JIG DET 26
REC PROOF 27
MODE SW C 28
MODE SW B 29
MODE SW A 30
80 LANC OUT
79 LANC IN
78 JACK MONO
77 CAP FG
76 DRUM PWM
75 CAP PWM
74 LM REV
73 LM FWD
72 TALLY LED
71 T/E LED
70 CAP FG
69 DRUM FG
68 DRUM PG
67 LITHIUM DET
66 COMP SYNC
65 CLOG
64 S.REEL
63 T.REEL
62 ATF ERROR
61 TEST
60 BATT SENSE
59 BATT REF
58 TOP SENSE
57 END SENSE
56 A/D KEY IN 5
55 A/D KEY IN 4
54 AVdd
53 AVref
52 AVss
51 A/D KEY IN3
31 VIDEO SCK
32 VIDEO SO
33 POWER LED
34 VIDEO CS
35 EVR CS
36 LCD CTR
37 CG STB
38 CAM CS
39 MP
40 RESET
41 Vss
42 XTAL
43 EXTAL
44 NC
45 CAM SI
46 CAM SO
47 CAM SCK
48 A/D KEY IN0
49 A/D KEY IN1
50 A/D KEY IN2

2-2-3 IC701(AN3996NFHP-Mono)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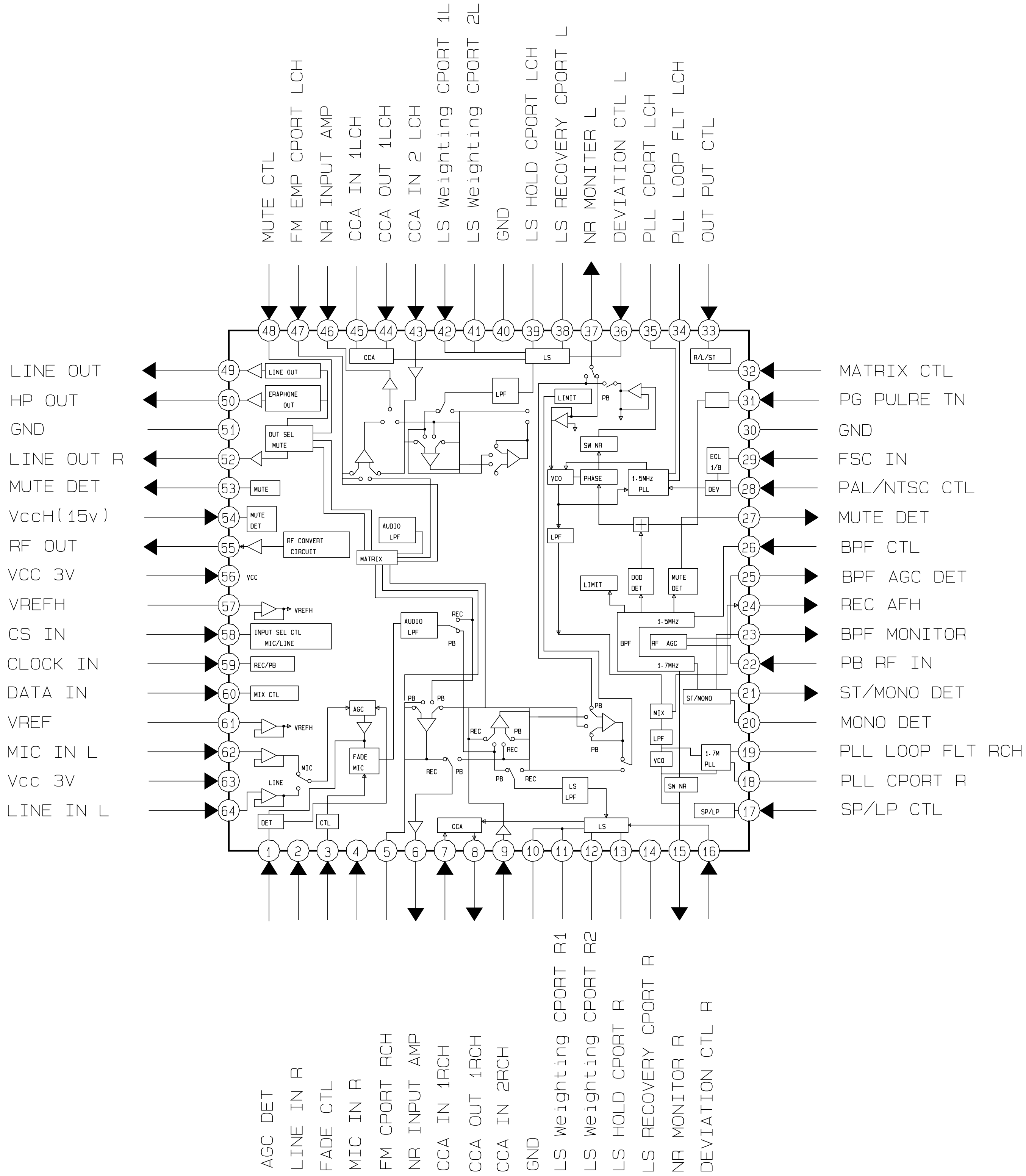
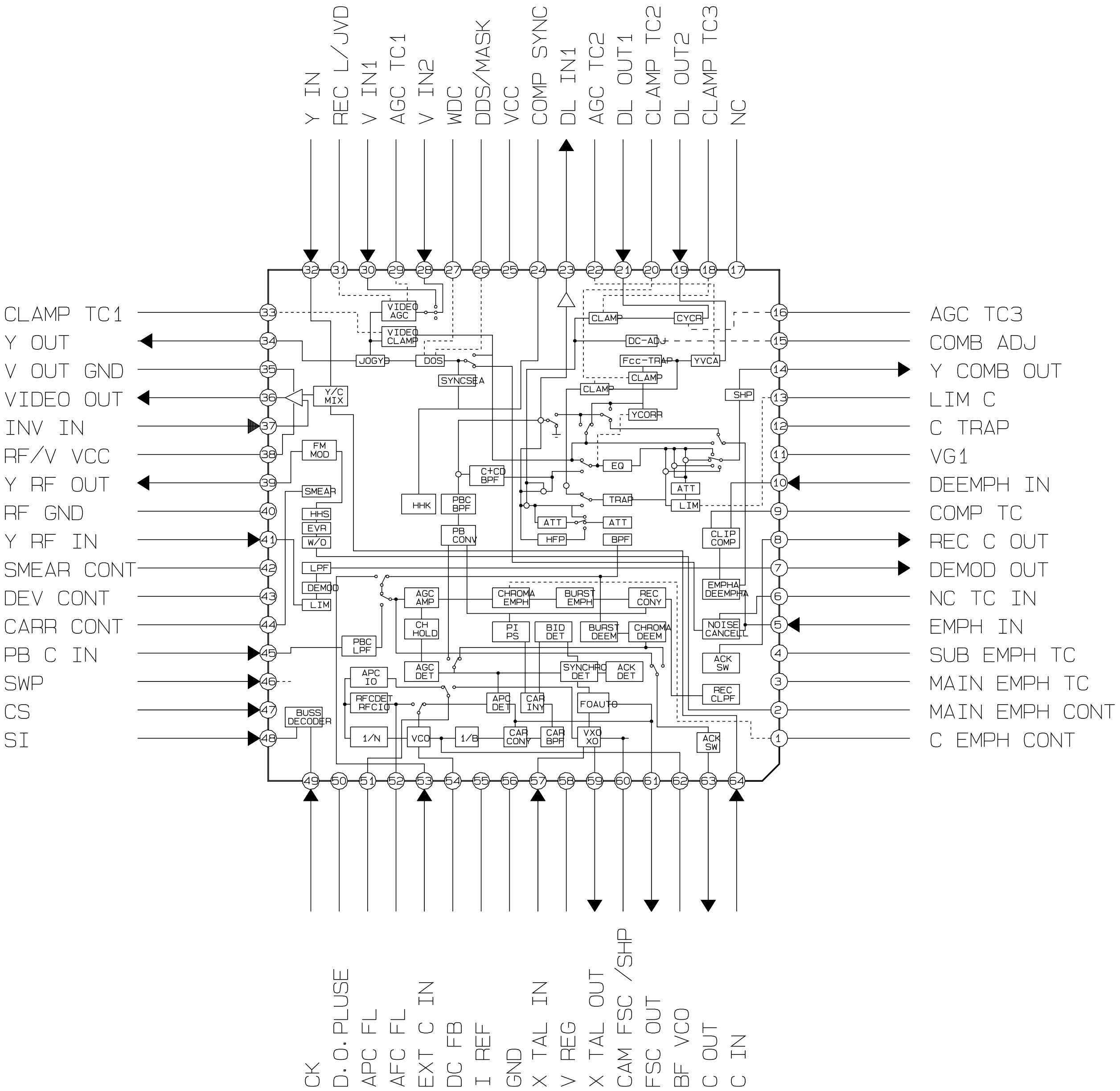
FM EMP C
N.C
N.C
N.C
N.C
LS C 1 L
LS C 2 L
GND
N.C
N.C
NR MON
DEV ADJ
PLL C
PLL
N.C
LINE OUT
EAR OUT
GND
N.C
MUTE OUT
VCCH
RF CON OUT
VCC
1/2VCCH
AUDIO CS
VIDEO SCK
VIDEO DATA
1/2VCC
MIC IN
VCC
LINE IN
N.C
PG IN
GND
FSC IN
N.C
MUTE DET
BPF CTL
BPF AGC DET
FM OUT
BPF MON
PB RF IN
N.C
N.C
N.C
N.C
VCC
AGC DET
N.C
CTL
N.C
N.C
NR IN AMP
CCA IN 1
CCA OUT 1
CCA IN 2
GND
LS C 1 R
LS C 2 R
LS C
LS-C
N.C
N.C
LINE OUT
ERAPHONE OUT
OUT SEL MUTE
RF CONVERT
MUTE DET
RF CONVERT CIRCUIT
VREFH
INPUT SEL CTL MIC/LINE
REC/PB
VREFH
MIC
LINE
AGC
FADE MIC
DET
CTL
AUDIO LPF
REC
PB
CCA
LS
LS LPF
LIMIT
SW NR
VCO
PHASE
1.5MHz PLL
ECL 1/8
DEV
LPF
LIMIT
DOD DET
MUTE DET
BPF(1.5MHz
RF AGC

2-2-4 IC701(AN2980A-Stereo)


MUTE CTL
FM EMP CPORT LCH
NR INPUT AMP
CCA IN 1LCH
CCA OUT 1LCH
CCA IN 2 LCH
LS Weighting CPORT 1L
LS Weighting CPORT 2L
GND
LS HOLD CPORT LCH
LS RECOVERY CPORT L
NR MONITER L
DEVIATION CTL L
PLL CPORT LCH
PLL LOOP FLT LCH
OUT PUT CTL
LINE OUT
HP OUT
GND
LINE OUT R
MUTE DET
VccH(15v)
RF OUT
VCC 3V
VREFH
CS IN
CLOCK IN
DATA IN
VREF
MIC IN L
Vcc 3V
LINE IN L
MATRIX CTL
PG PULRE TN
GND
FSC IN
PAL/NTSC CTL
MUTE DET
BPF CTL
BPF AGC DET
REC AFH
BPF MONITOR
PB RF IN
ST/MONO DET
MONO DET
PLL LOOP FLT RCH
PLL CPORT R
SP/LP CTL
AGC DET
LINE IN R
FADE CTL
MIC IN R
FM CPORT RCH
NR INPUT AMP
CCA IN 1RCH
CCA OUT 1RCH
CCA IN 2RCH
GND
LS Weighting CPORT R1
LS Weighting CPORT R2
LS HOLD CPORT R
LS RECOVERY CPORT R
NR MONITOR R
DEVIATION CTL R
LINE OUT
ERAPHONE OUT
OUT SEL MUTE
MUTE
MUTE DET
RF CONVERT CIRCUIT
AUDIO LPF
MATRIX
VCC
VREFH
INPUT SEL CTL MIC/LINE
REC/PB
MIX CTL
VREFH
MIC
LINE
DET
CTL
AGC
FADE MIC
AUDIO LPF
REC
PB
CCA
LS
LPF
LIMIT
SW NR
VCO
PHASE
1.5MHz PLL
R/L/ST
ECL 1/8
DEV
LPF
LIMIT
DOD DET
MUTE DET
1.5MHz
BPF
RF AGC
1.7MHz
ST/MONO
MIX
LPF
VCO
1.7M PLL
SW NR
SP/LP
LS LPF
CCA
LS

2-2-5 IC201(CXA1700R)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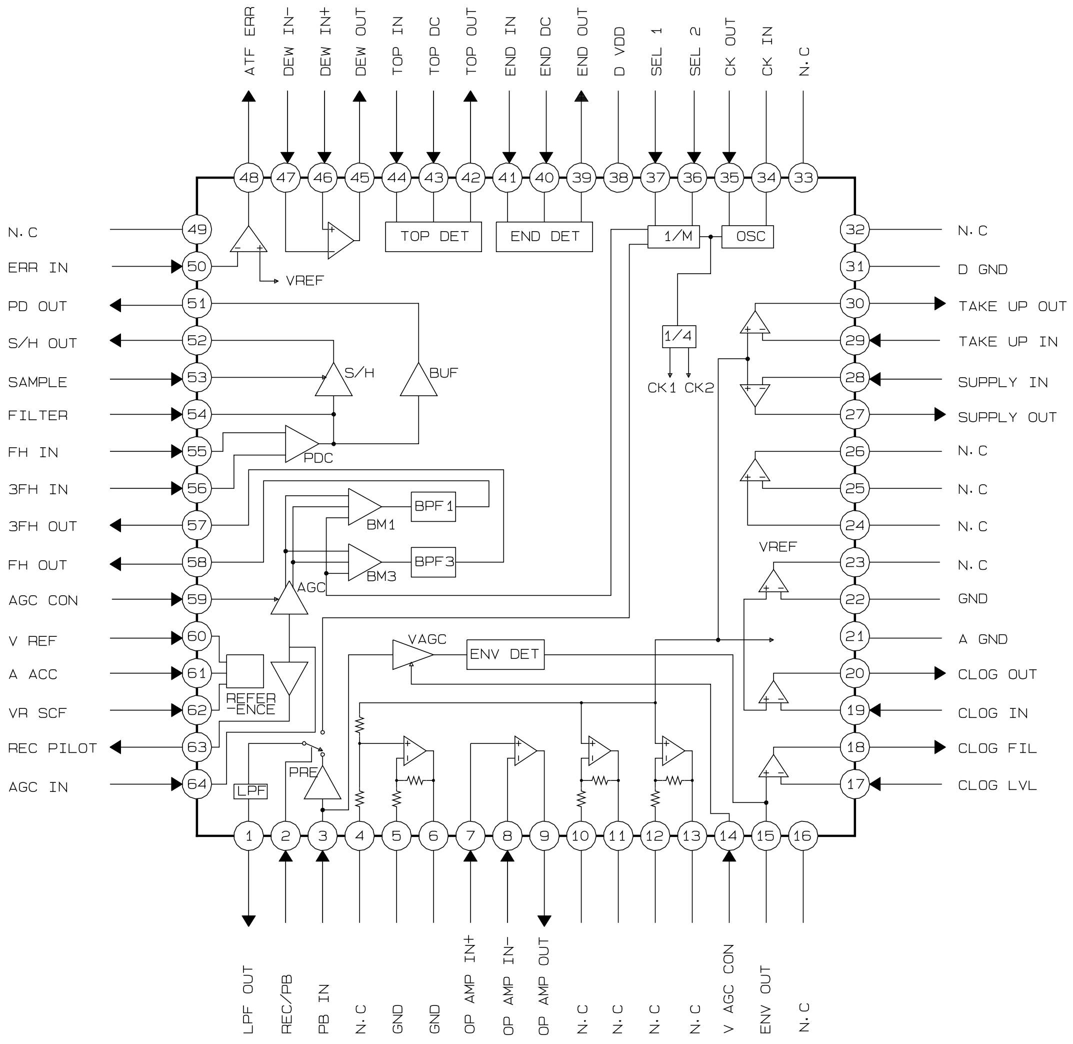
REC L/JVD
V IN1
AGC TC1
V IN2
WDC
DDS/MASK
VCC
COMP SYNC
DL IN1
AGC TC2
DL OUT1
CLAMP TC2
DL OUT2
CLAMP TC3
NC
CLAMP TC1
Y OUT
V OUT GND
VIDEO OUT
INV IN
RF/V VCC
Y RF OUT
RF GND
Y RF IN
SMEAR CONT
DEV CONT
CARR CONT
PB C IN
SWP
CS
SI
AGC TC3
COMB ADJ
Y COMB OUT
LIM C
C TRAP
VG1
DEEMPH IN
COMP TC
REC C OUT
DEMOD OUT
NC TC IN
EMPH IN
SUB EMPH TC
MAIN EMPH TC
MAIN EMPH CONT
C EMPH CONT
CK
D.O.PLUSE
APC FL
AFC FL
EXT C IN
DC FB
I REF
GND
X TAL IN
V REG
X TAL OUT
CAM FSC /SHP
FSC OUT
BF VCO
C OUT
C IN
VIDEO AGC
VIDEO CLAMP
JOGYC
DOS
SYNCSEA
Y/C MIX
FM MOD
SMEAR
HHS
EVR
W/O
LPF
DEMOD
LIM
HHK
PBC BPF
PB CONV
C+CD BPF
CLAMP
CYCR
DC-ADJ
Fcc-TRAP
YVCA
CLAMP
CLAMP
YCORR
SHP
EQ
ATT
LIM
TRAP
ATT
ATT
HFP
BPF
CLIP COMP
EMPHA DEEMPHA
AGC AMP
CHROMA EMPH
BURST EMPH
REC CONV
CH HOLD
PI PS
BID DET
BURST DEEM
CHROMA DEEM
NOISE CANCELL
PBC LPF
AGC DET
SYNCHRO DET
ACK DET
ACK SW
APC IO
RFCDET RFCIO
APC DET
CAR INV
FOAUTO
REC CLPF
BUSS DECODER
1/N
VCO
1/B
CAR CONV
CAR BPF
VXO XO
ACK SW

2-2-6 IC501(KA8322)


ATF ERR
DEW IN-
DEW IN+
DEW OUT
TOP IN
TOP DC
TOP OUT
END IN
END DC
END OUT
D VDD
SEL 1
SEL 2
CK OUT
CK IN
N.C
48
47
46
45
44
43
42
41
40
39
38
37
36
35
34
33
TOP DET
END DET
1/M
OSC
VREF
1/4
CK1 CK2
S/H
BUF
PDC
BPF1
BM1
BPF3
BM3
AGC
VREF
VAGC
ENV DET
REFER
-ENCE
PRE
LPF
N.C
ERR IN
PD OUT
S/H OUT
SAMPLE
FILTER
FH IN
3FH IN
3FH OUT
FH OUT
AGC CON
V REF
A ACC
VR SCF
REC PILOT
AGC IN
49
50
51
52
53
54
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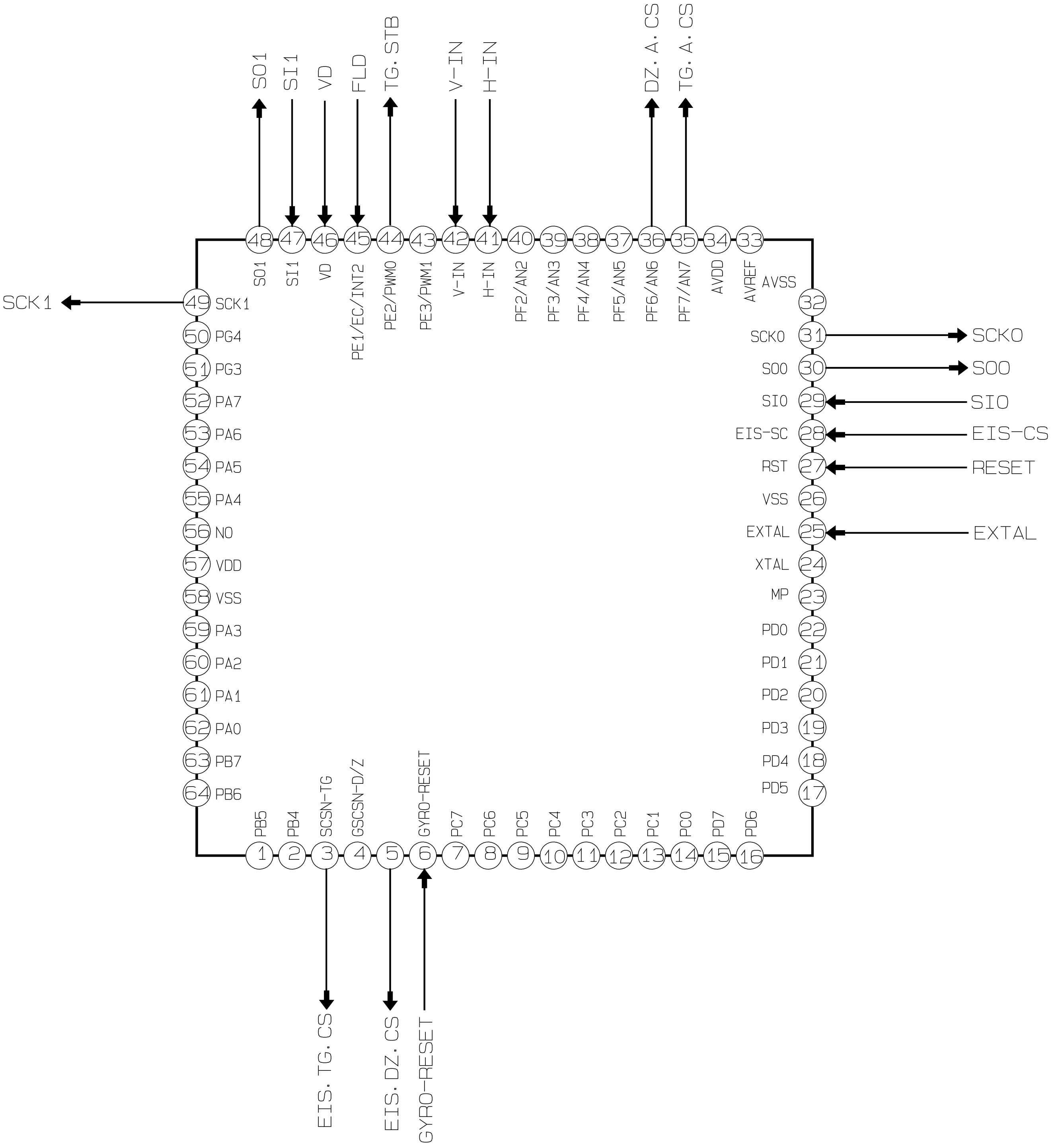
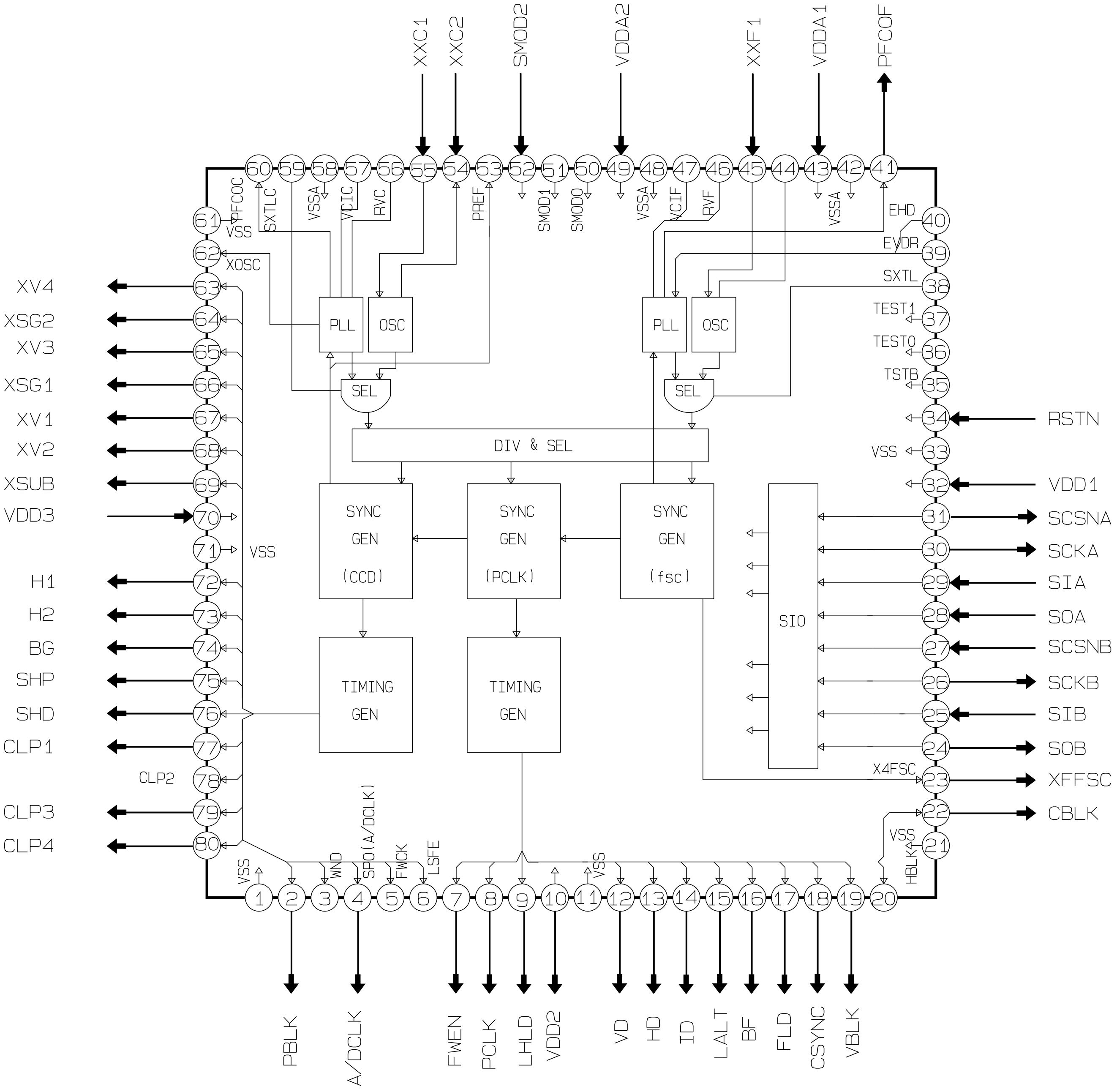
56
57
58
59
60
61
62
63
64
32
31
30
29
28
27
26
25
24
23
22
21
20
19
18
17
N.C
D GND
TAKE UP OUT
TAKE UP IN
SUPPLY IN
SUPPLY OUT
N.C
N.C
N.C
N.C
GND
A GND
CLOG OUT
CLOG IN
CLOG FIL
CLOG LVL
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
LPF OUT
REC/PB
PB IN
N.C
GND
GND
OP AMP IN+
OP AMP IN-
OP AMP OUT
N.C
N.C
N.C
N.C
V AGC CON
ENV OUT
N.C

2-2-7 ICS15(CXP811P24R)


SO1
SI1
VD
FLD
TG. STB
V-IN
H-IN
DZ. A. CS
TG. A. CS
48 SO1
47 SI1
46 VD
45 PE1/EC/INT2
44 PE2/PWM0
43 PE3/PWM1
42 V-IN
41 H-IN
40 PF2/AN2
39 PF3/AN3
38 PF4/AN4
37 PF5/AN5
36 PF6/AN6
35 PF7/AN7
34 AVDD
33 AVREF
SCK1
49 SCK1
50 PG4
51 PG3
52 PA7
53 PA6
54 PA5
55 PA4
56 NO
57 VDD
58 VSS
59 PA3
60 PA2
61 PA1
62 PA0
63 PB7
64 PB6
AVSS 32
SCK0 31
SO0 30
SI0 29
EIS-SC 28
RST 27
VSS 26
EXTAL 25
XTAL 24
MP 23
PD0 22
PD1 21
PD2 20
PD3 19
PD4 18
PD5 17
SCKO
SOO
SIO
EIS-CS
RESET
EXTAL
1 PB5
2 PB4
3 SCSN-TG
4 GSCSN-D/Z
5
6 GYRO-RESET
7 PC7
8 PC6
9 PC5
10 PC4
11 PC3
12 PC2
13 PC1
14 PC0
15 PD7
16 PD6
EIS. TG. CS
EIS. DZ. CS
GYRO-RESET

2-2-8 ICP01(KS7213)


XXC1
XXC2
SMOD2
VDDA2
XXF1
VDDA1
PFCOF
PFCOC
SXTLC
VSSA
VCIC
RVC
PREF
SMOD1
SMOD0
VSSA
VCIF
RVF
VSSA
EHD
EVDR
SXTL
TEST1
TEST0
TSTB
VSS
VSS
XOSC
XV4
XSG2
XV3
XSG1
XV1
XV2
XSUB
VDD3
VSS
H1
H2
BG
SHP
SHD
CLP1
CLP2
CLP3
CLP4
PLL
OSC
SEL
PLL
OSC
SEL
DIV & SEL
SYNC GEN (CCD)
SYNC GEN (PCLK)
SYNC GEN (fsc)
TIMING GEN
TIMING GEN
SIO
RSTN
VSS
VDD1
SCSNA
SCKA
SIA
SOA
SCSNB
SCKB
SIB
SOB
X4FSC
XFFSC
CBLK
VSS
HBLK
VSS
WND
SPO(A/DCLK)
FWCK
LSFE
VSS
PBLK
A/DCLK
FWEN
PCLK
LHLD
VDD2
VD
HD
ID
LALT
BF
FLD
CSYNC
VBLK
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60
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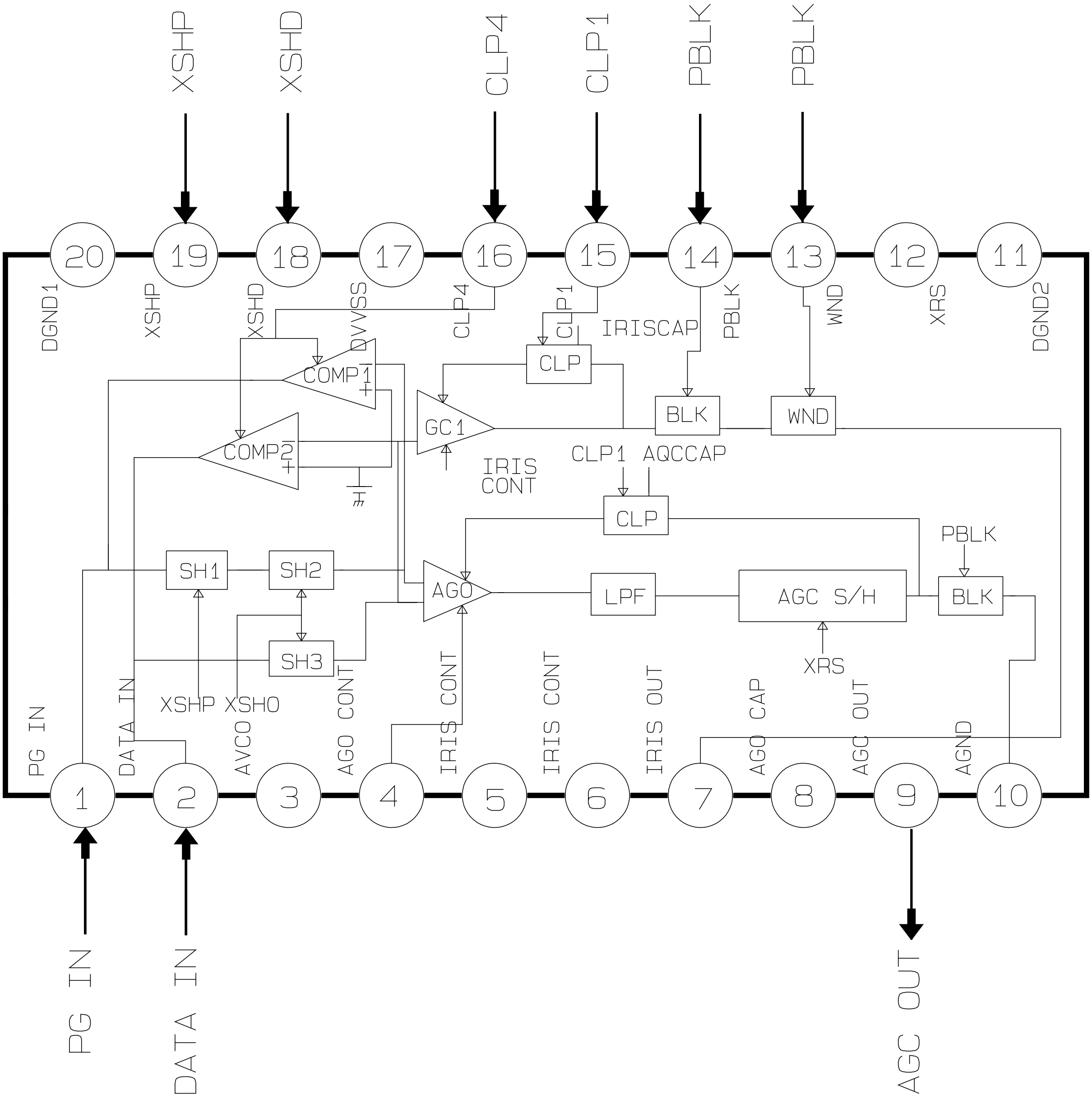
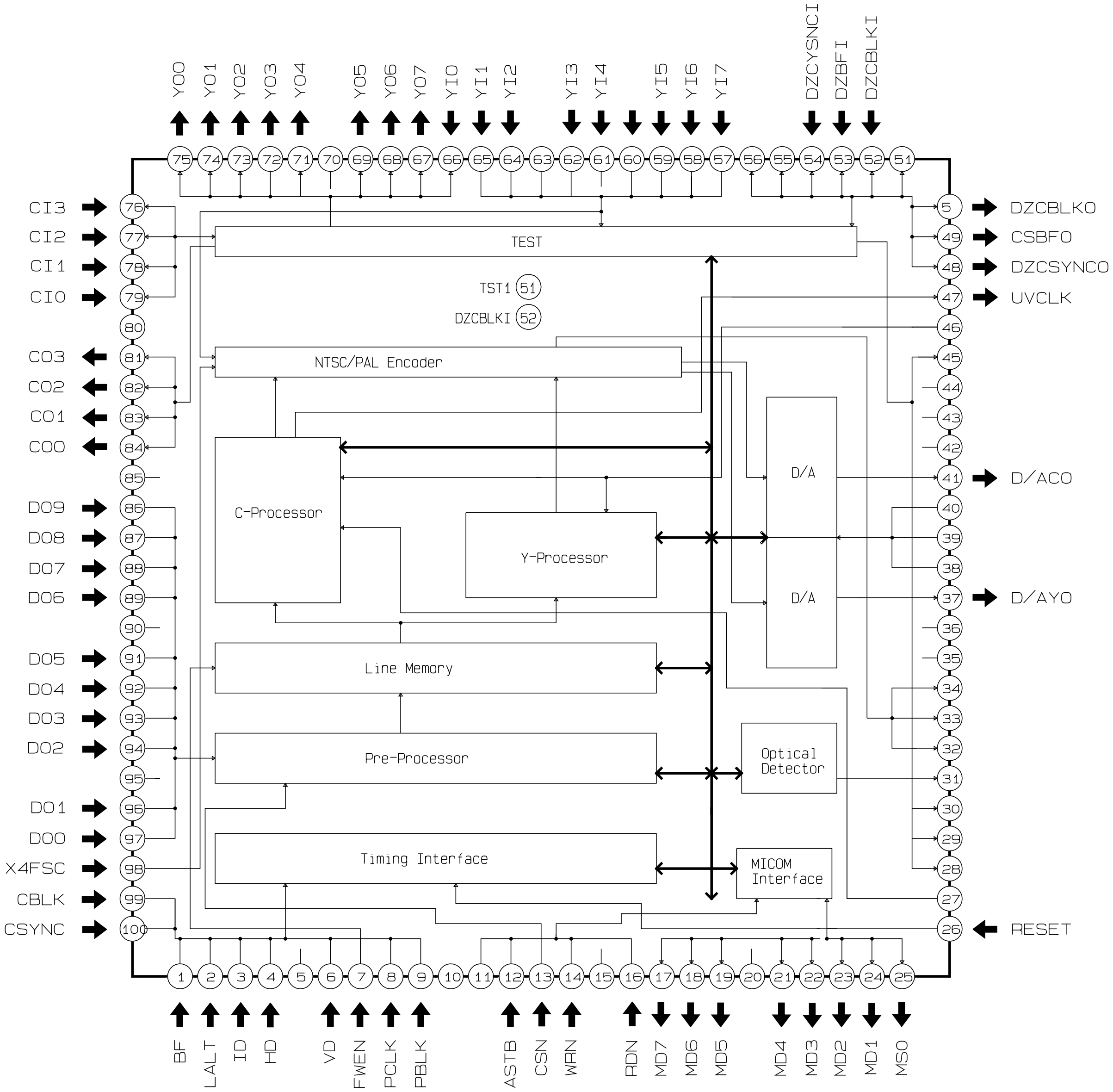
2-2-9 ICP02(KA7307)


XSHP
XSHD
CLP4
CLP1
PBLK
PBLK
20
19
18
17
16
15
14
13
12
11
DGND1
XSHP
XSHD
DVVSS
CLP4
CLP1
IRISCAP
PBLK
WND
XRS
DGND2
COMP1
COMP2
CLP
GC1
BLK
WND
IRIS
CONT
CLP1
AQCCAP
CLP
PBLK
SH1
SH2
AGO
LPF
AGC S/H
BLK
SH3
XRS
XSHP
XSHO
PG IN
DATA IN
AVCO
AGO CONT
IRIS CONT
IRIS CONT
IRIS OUT
AGO CAP
AGC OUT
AGND
1
2
3
4
5
6
7
8
9
10
PG IN
DATA IN
AGC OUT

2-2-10 ICP08(KS7306)


YO0
YO1
YO2
YO3
YO4
YO5
YO6
YO7
YI0
YI1
YI2
YI3
YI4
YI5
YI6
YI7
DZCYSNCI
DZBFI
DZCBLKI
75
74
73
72
71
70
69
68
67
66
65
64
63
62
61
60
59
58
57
56
55
54
53
52
51
CI3
CI2
CI1
CI0
CO3
CO2
CO1
CO0
DO9
DO8
DO7
DO6
DO5
DO4
DO3
DO2
DO1
DO0
X4FSC
CBLK
CSYNC
76
77
78
79
80
81
82
83
84
85
86
87
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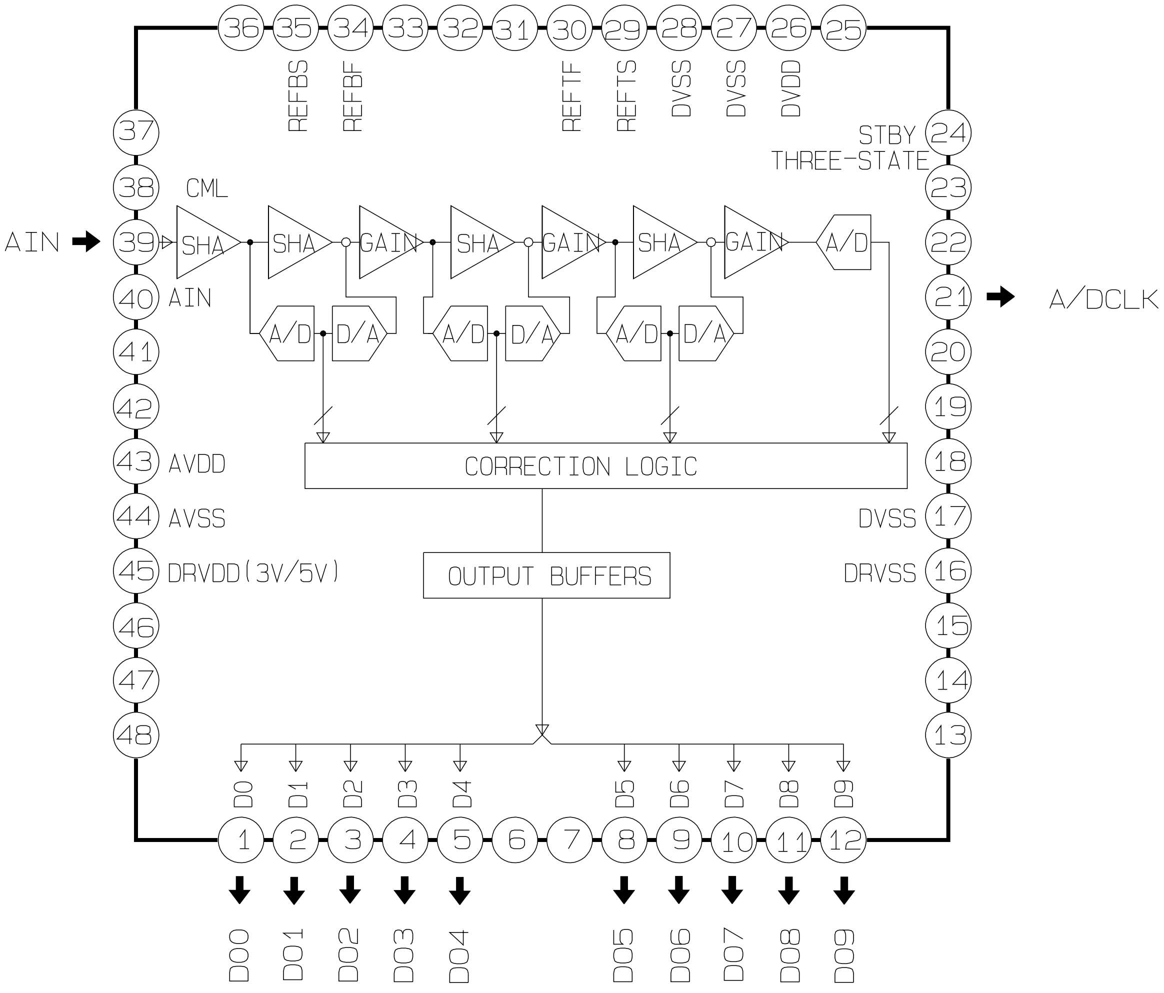
89
90
91
92
93
94
95
96
97
98
99
100
TEST
TST1 51
DZCBLKI 52
NTSC/PAL Encoder
C-Processor
Y-Processor
D/A
D/A
Line Memory
Pre-Processor
Optical Detector
Timing Interface
MICOM Interface
5
49
48
47
46
45
44
43
42
41
40
39
38
37
36
35
34
33
32
31
30
29
28
27
26
DZCBLKO
CSBFO
DZCSYNCO
UVCLK
D/ACO
D/AYO
RESET
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
BF
LALT
ID
HD
VD
FWEN
PCLK
PBLK
ASTB
CSN
WRN
RDN
MD7
MD6
MD5
MD4
MD3
MD2
MD1
MS0

2-2-11 ICP06(AD876)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34
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32
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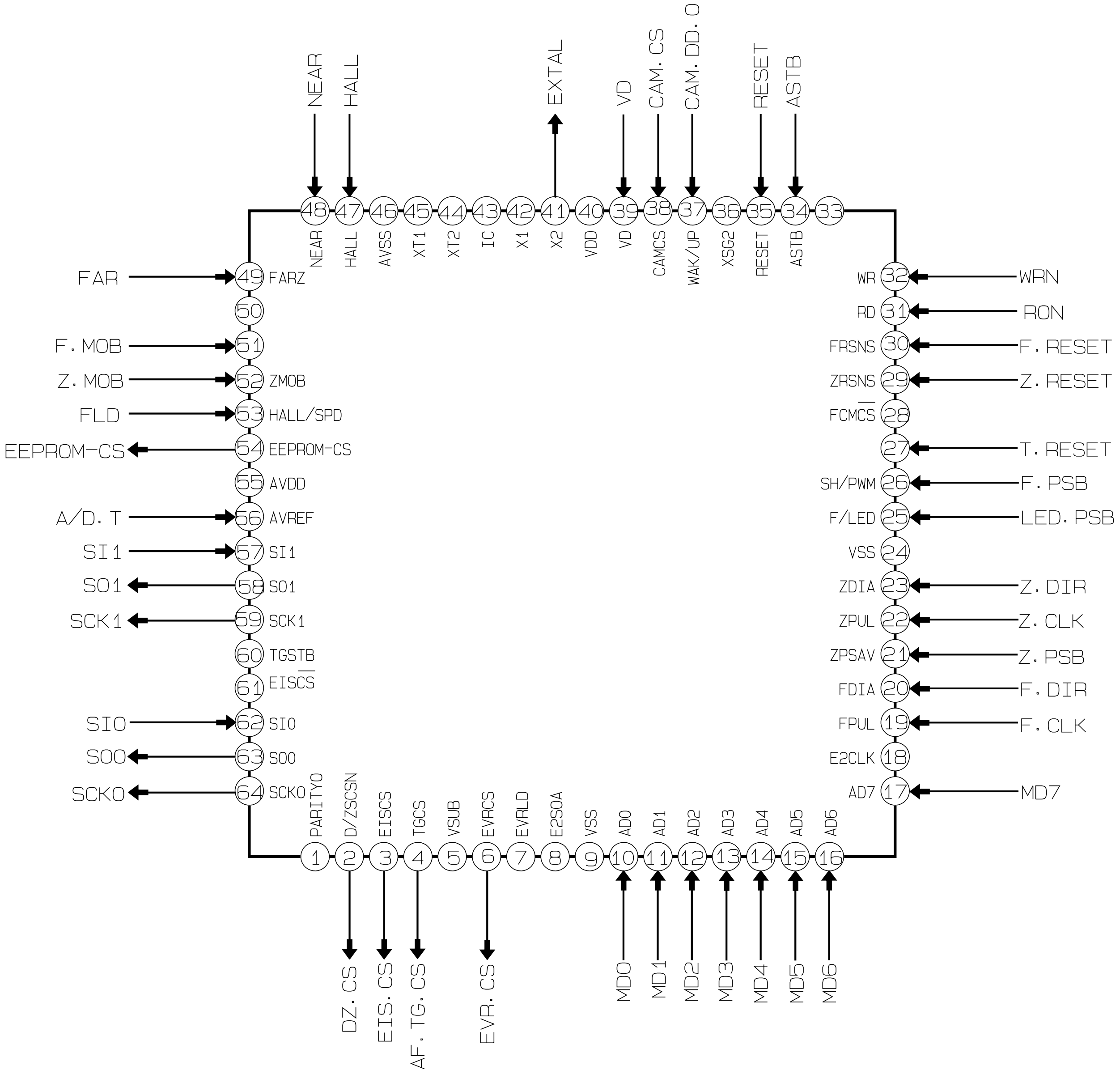
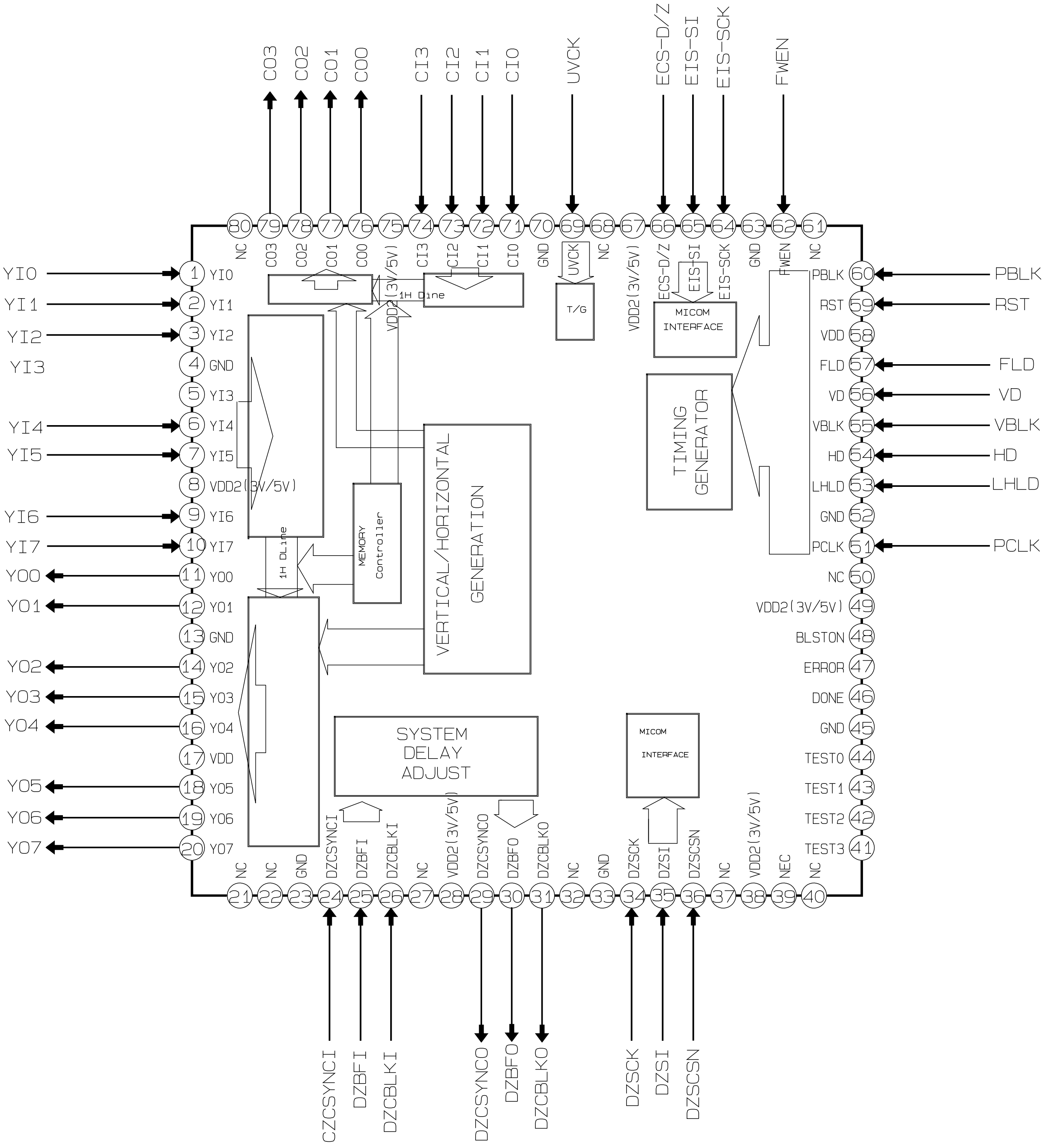
30
29
28
27
26
25
REFBS
REFBF
REFTF
REFTS
DVSS
DVSS
DVDD
37
38
CML
AIN
39
SHA
SHA
GAIN
SHA
GAIN
SHA
GAIN
A/D
40
AIN
A/D
D/A
A/D
D/A
A/D
D/A
41
42
43
AVDD
44
AVSS
45
DRVDD(3V/5V)
46
47
48
STBY
THREE-STATE
24
23
22
21
A/DCLK
20
19
18
17
DVSS
16
DRVSS
15
14
13
CORRECTION LOGIC
OUTPUT BUFFERS
D0
D1
D2
D3
D4
D5
D6
D7
D8
D9
1
2
3
4
5
6
7
8
9
10
11
12
DO0
DO1
DO2
DO3
DO4
DO5
DO6
DO7
DO8
DO9

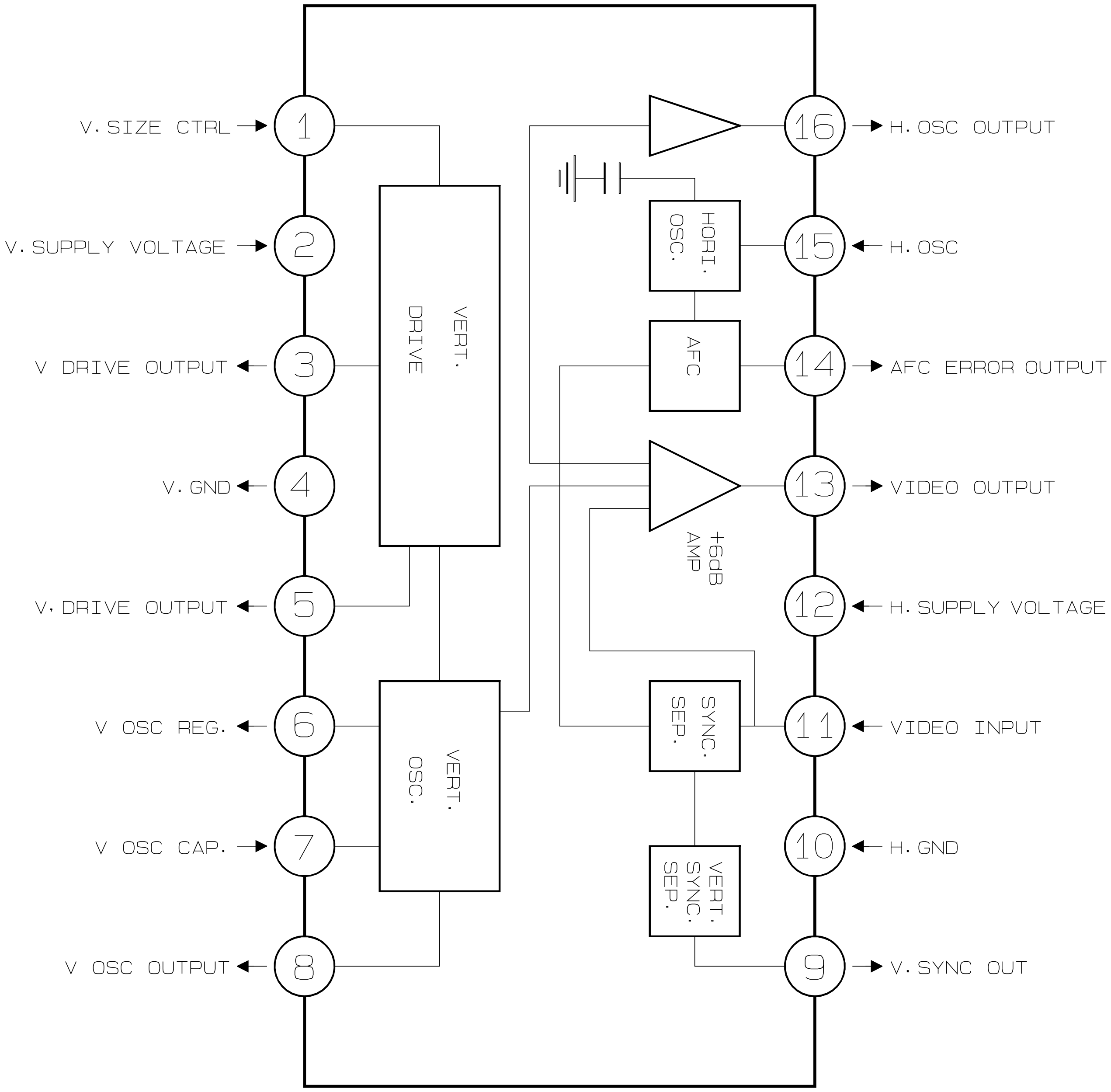
2-2-12 ICP09(UPD78018)


NEAR
HALL
EXTAL
VD
CAM.CS
CAM.DD.O
RESET
ASTB
48
47
46
45
44
43
42
41
40
39
38
37
36
35
34
33
NEAR
HALL
AVSS
XT1
XT2
IC
X1
X2
VDD
VD
CAMCS
WAK/UP
XSG2
RESET
ASTB
FAR
49
FARZ
50
F.MOB
51
Z.MOB
52
ZMOB
FLD
53
HALL/SPD
EEPROM-CS
54
EEPROM-CS
55
AVDD
A/D.T
56
AVREF
SI1
57
SI1
SO1
58
SO1
SCK1
59
SCK1
60
TGSTB
61
EISCS
SIO
62
SIO
SOO
63
SOO
SCKO
64
SCKO
WR
32
WRN
RD
31
RON
FRSNS
30
F.RESET
ZRSNS
29
Z.RESET
FCMCS
28
27
T.RESET
SH/PWM
26
F.PSB
F/LED
25
LED.PSB
VSS
24
ZDIA
23
Z.DIR
ZPUL
22
Z.CLK
ZPSAV
21
Z.PSB
FDIA
20
F.DIR
FPUL
19
F.CLK
E2CLK
18
AD7
17
MD7
PARITYO
D/ZSCSN
EISCS
TGCS
VSUB
EVRCS
EVRLD
E2SOA
VSS
AD0
AD1
AD2
AD3
AD4
AD5
AD6
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
DZ.CS
EIS.CS
AF.TG.CS
EVR.CS
MD0
MD1
MD2
MD3
MD4
MD5
MD6

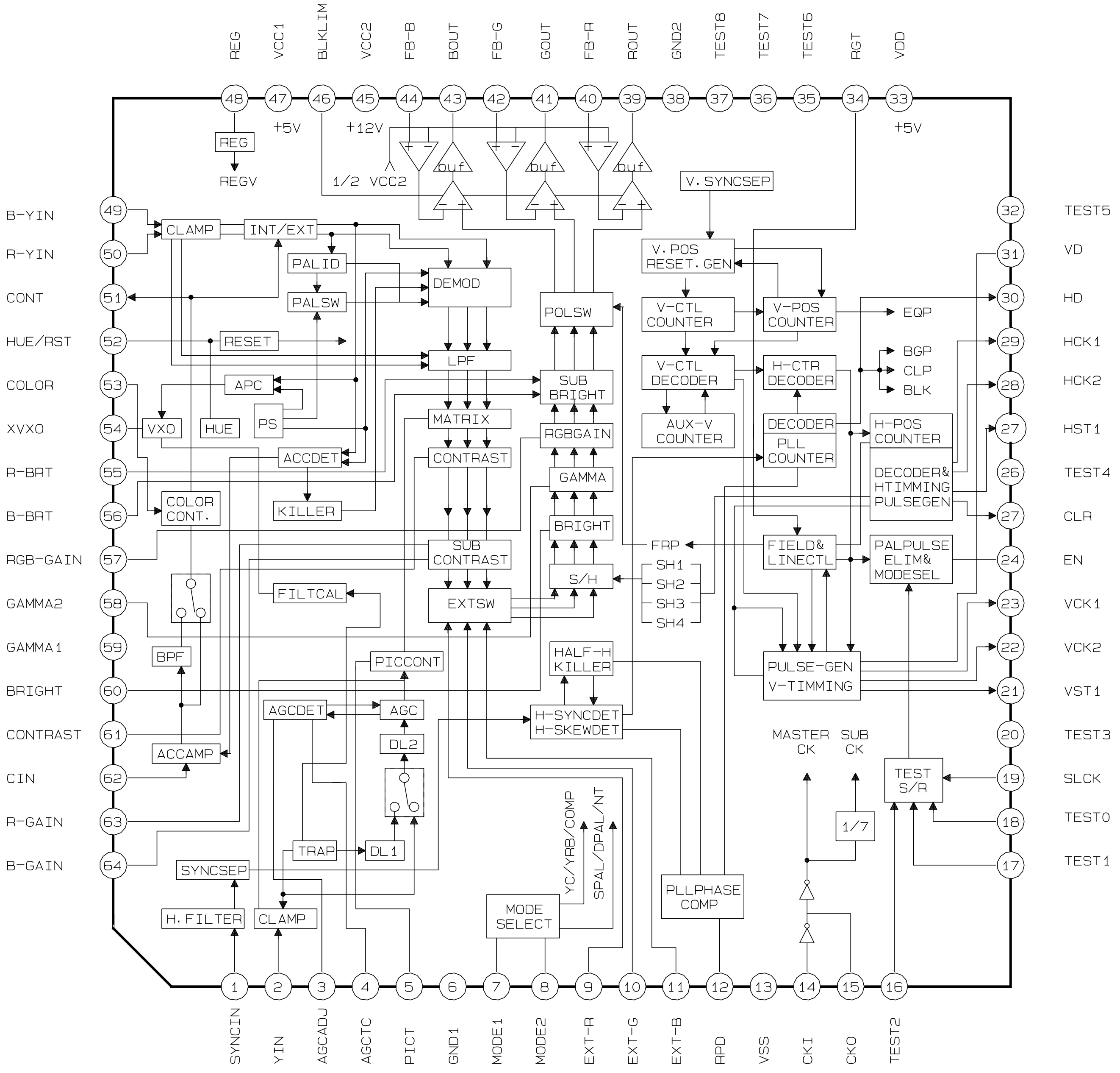
2-2-13 ICZ07(KS7314)


CO3
CO2
CO1
CO0
CI3
CI2
CI1
CI0
UVCK
ECS-D/Z
EIS-SI
EIS-SCK
FWEN
YI0
YI1
YI2
YI3
YI4
YI5
YI6
YI7
YO0
YO1
YO2
YO3
YO4
YO5
YO6
YO7
PBLK
RST
FLD
VD
VBLK
HD
LHLD
PCLK
1H Dline
T/G
MICOM INTERFACE
TIMING GENERATOR
MEMORY Controller
VERTICAL/HORIZONTAL GENERATION
SYSTEM DELAY ADJUST
VDD2(3V/5V)
GND
NC
VDD
BLSTON
ERROR
DONE
TEST0
TEST1
TEST2
TEST3
NEC
DZCSYNCI
DZBFI
DZCBLKI
DZCSYNCO
DZBFO
DZCBLKO
DZSCK
DZSI
DZSCSN
CZCSYNCI

2-2-14 ICE01(KA7007)


V. SIZE CTRL
1
V. SUPPLY VOLTAGE
2
V DRIVE OUTPUT
3
V. GND
4
V. DRIVE OUTPUT
5
V OSC REG.
6
V OSC CAP.
7
V OSC OUTPUT
8
VERT. DRIVE
VERT. OSC.
HORI. OSC.
AFC
+6dB AMP
SYNC. SEP.
VERT. SYNC. SEP.
16
H. OSC OUTPUT
15
H. OSC
14
AFC ERROR OUTPUT
13
VIDEO OUTPUT
12
H. SUPPLY VOLTAGE
11
VIDEO INPUT
10
H. GND
9
V. SYNC OUT

2-2-15 ICE01(CXA1854AR)-CVF


REG
VCC1
BLKLIM
VCC2
FB-B
BOUT
FB-G
GOUT
FB-R
ROUT
GND2
TEST8
TEST7
TEST6
RGT
VDD
48
47
46
45
44
43
42
41
40
39
38
37
36
35
34
33
+5V
+12V
+5V
REG
REGV
1/2 VCC2
buf
buf
buf
V.SYNCSEP
B-YIN
R-YIN
CONT
HUE/RST
COLOR
XVXO
R-BRT
B-BRT
RGB-GAIN
GAMMA2
GAMMA1
BRIGHT
CONTRAST
CIN
R-GAIN
B-GAIN
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
CLAMP
INT/EXT
PALID
PALSW
DEMOD
RESET
LPF
APC
PS
VXO
HUE
MATRIX
ACCDET
CONTRAST
KILLER
COLOR CONT.
SUB CONTRAST
FILTCAL
EXTSW
BPF
PICCONT
ACCAMP
AGCDET
AGC
DL2
TRAP
DL1
SYNCSEP
H.FILTER
CLAMP
POLSW
SUB BRIGHT
RGBGAIN
GAMMA
BRIGHT
S/H
HALF-H KILLER
H-SYNCDET
H-SKEWDET
MODE SELECT
YC/YRB/COMP
SPAL/DPAL/NT
V.POS RESET.GEN
V-CTL COUNTER
V-POS COUNTER
EQP
V-CTL DECODER
H-CTR DECODER
BGP
CLP
BLK
AUX-V COUNTER
DECODER
PLL COUNTER
H-POS COUNTER
DECODER& HTIMMING PULSEGEN
FRP
SH1
SH2
SH3
SH4
FIELD& LINECTL
PALPULSE ELIM& MODESEL
PULSE-GEN V-TIMMING
MASTER CK
SUB CK
TEST S/R
1/7
PLLPHASE COMP
TEST5
VD
HD
HCK1
HCK2
HST1
TEST4
CLR
EN
VCK1
VCK2
VST1
TEST3
SLCK
TEST0
TEST1
32
31
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11
12
13
14
15
16
SYNCIN
YIN
AGCADJ
AGCTC
PICT
GND1
MODE1
MODE2
EXT-R
EXT-G
EXT-B
RPD
VSS
CKI
CKO
TEST2

MEMO

3. Product Specifications and Comparison Chart

3-1 Product Specifications

Design and specifications are subject to change without notice.

Operation	Description
SYSTEM	
Recording systems	Video : 2 rotary heads, helical FM scanning; Audio : FM system
Video signal	PAL colour, CCIR standard
Cassette format	8 mm
Tape speed	SP mode (Standard Play) : approx. 20.051 mm/sec
Recording/playback time	SP mode (Standard Play) : 1 hour 30 minutes (P5-90)
Fast-forward/rewind time	Approx. 4 min. (P5-60)
Image device	CCD (Charge Coupled Device)
Viewfinder	VP-A12/VP-A17 : Black and White electronic viewfinder VP-A15/VP-A18 : Colour electronic viewfinder
Lens	VP-A12/VP-A15 : Combined 16X power zoom and 32X digital zoom VP-A17/VP-A18 : Combined 16X power zoom and 32X digital zoom f=3.9~62.4mm, F1.4 auto wide macro; filter diameter 46 mm.
Automatic focus system	Inner
Colour temperature	Auto
Lighting	> 300 lux (28 footcandles)
Aperture correction	Automatic with back light adjustment
INPUT/OUTPUT CONNECTORS	
Video output	Phono jack, 1Vp-p, 75 ohms, unbalanced, SYNC negative
Audio output	Phono jack, 7.5dBs for an output impedance of less than 2.2 Kohms
RFU DC OUT	Special mini-jack, 5V DC
Earphone output	Minijack, 8 ohms
Ext Mic.	Minijack, ø3.5 mm
GENERAL	
Power requirement	AC power adaptor (6.0V) ; battery pack (6.0V)
Power consumption	VP-A12/VP-A15 : 5.0W, VP-A17/VP-A18 : 5.7W (in camera mode)
Tripod attachment thread	Attachment screw less than 9mm long
Microphone	VP-A12 : Electric condensor microphone, omni-directional, manual type VP-A15/A17/A18 : Electric condensor microphone, omni-directional, stereo type
Temperature range	Operation : 0°C to 40°C (32°F to 104°F); storage : -20°C to 60°C (-4°F to 140°F)
Dimensions/weight	Appros. 110 X 114 X 224 mm (4.3 X 4.5 X 8.8 inches) ; approx. 760 g (1.65 lbs) including lens cap, excluding battery pack and cassette

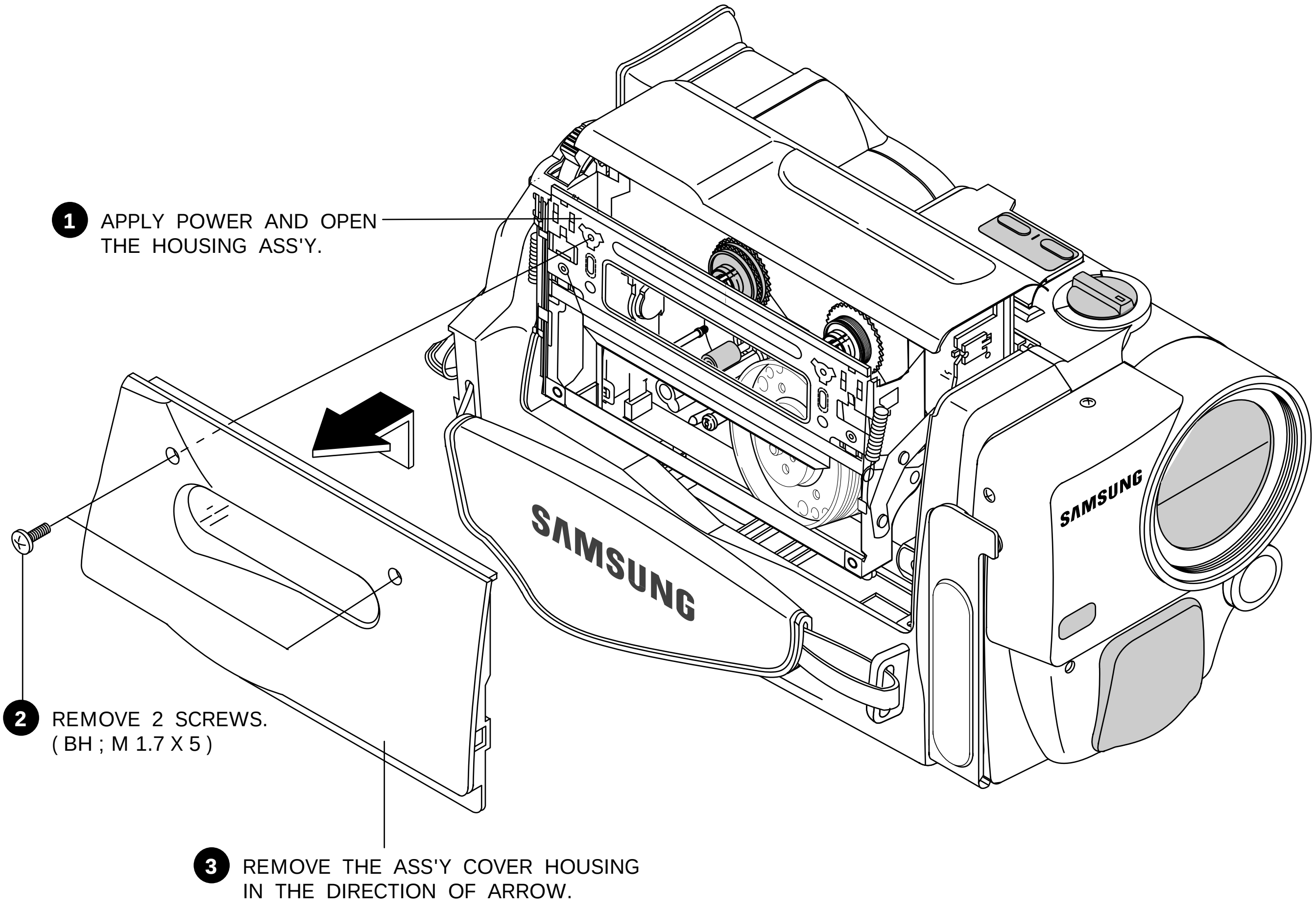
3-2 Comparison Chart

MODEL FUNCTION	VP-A12	VP-A15	VP-A17	VP-A18	REMARK
MICROPHONE	MONO	STEREO	STEREO	STEREO	
VIEWFINDER	EVF	CVF	EVF	CVF	
D.ZOOM	X24 D.ZOOM	X24 D.ZOOM	X64 D.ZOOM	X64 D.ZOOM	
EIS	X	X	O	O	
WIDE	X	X	O	O	

4. Disassembly and Reassembly

4-1 Cabinet Disassembly

4-1-1 Ass'y Cover Housing Removal



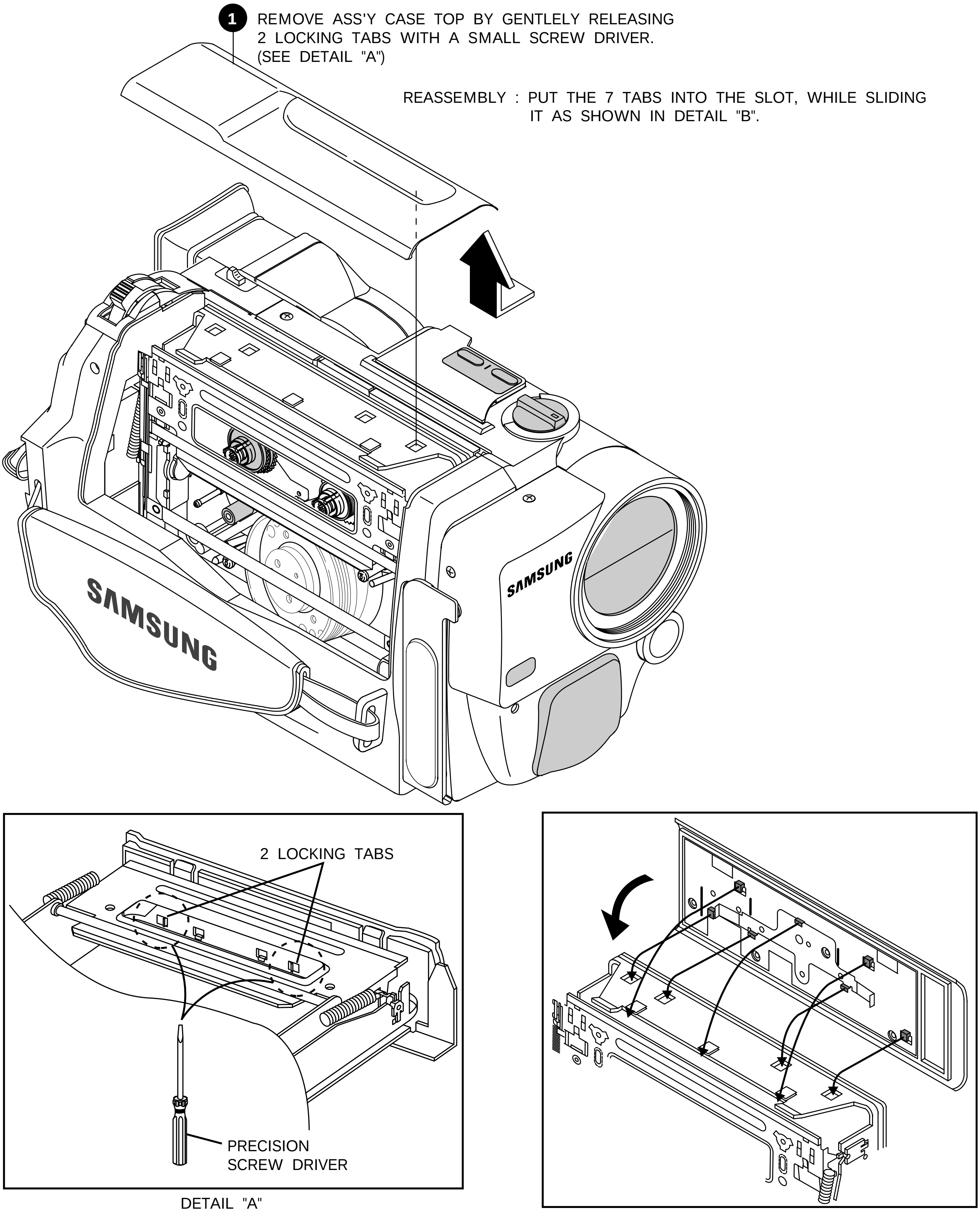
❶ APPLY POWER AND OPEN THE HOUSING ASS'Y.

❷ REMOVE 2 SCREWS. (BH ; M 1.7 X 5)

❸ REMOVE THE ASS'Y COVER HOUSING IN THE DIRECTION OF ARROW.

Fig. 4-1 Ass'y Cover Housing Removal

4-1-2 Ass’y Case Top Removal


1
SAMSUNG
SAMSUNG
2 LOCKING TABS
PRECISION
SCREW DRIVER

① REMOVE ASS'Y CASE TOP BY GENTLELY RELEASING 2 LOCKING TABS WITH A SMALL SCREW DRIVER. (SEE DETAIL "A")

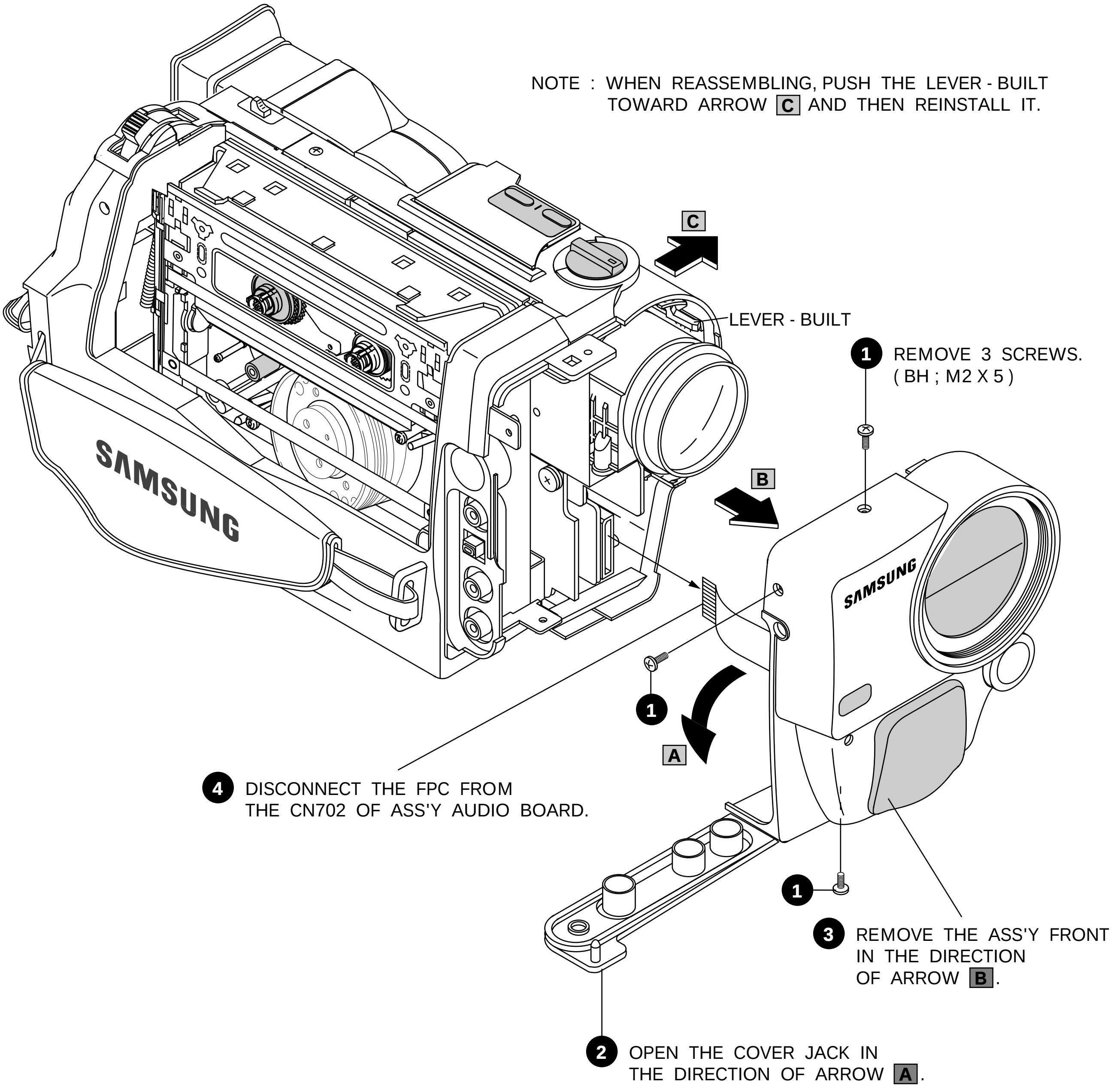
REASSEMBLY : PUT THE 7 TABS INTO THE SLOT, WHILE SLIDING
IT AS SHOWN IN DETAIL "B".

DETAIL "A"

DETAIL "B"

Fig. 4-2 Ass’y Case Top Removal

4-1-3 Ass’y Front Removal (1)


NOTE : WHEN REASSEMBLING, PUSH THE LEVER - BUILT TOWARD ARROW C AND THEN REINSTALL IT.

1 REMOVE 3 SCREWS. (BH ; M2 X 5)

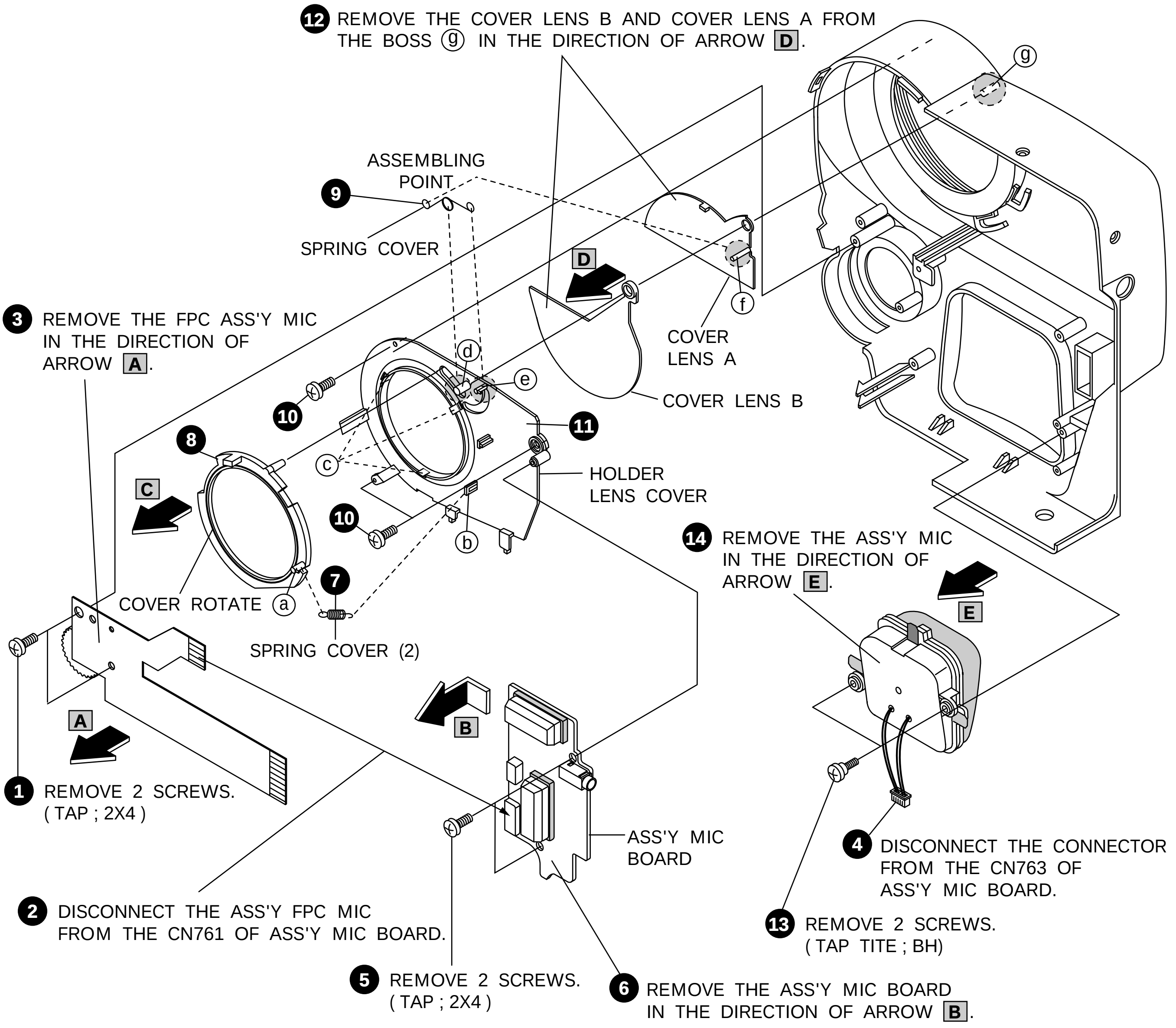
2 OPEN THE COVER JACK IN THE DIRECTION OF ARROW A.

3 REMOVE THE ASS'Y FRONT IN THE DIRECTION OF ARROW B.

4 DISCONNECT THE FPC FROM THE CN702 OF ASS'Y AUDIO BOARD.

Fig. 4-3 Ass’y Front Removal (1)

4-1-4 Ass’y Front Removal (2)


ASSEMBLING POINT
⑨
SPRING COVER
D
ⓖ
ⓕ
COVER LENS A
COVER LENS B
ⓓ
ⓔ
⑩
⑪
⑧
ⓒ
C
HOLDER LENS COVER
⑩
ⓑ
⑦
COVER ROTATE ⓐ
SPRING COVER (2)
E
A
B
ASS'Y MIC BOARD

⑫ REMOVE THE COVER LENS B AND COVER LENS A FROM THE BOSS ⓖ IN THE DIRECTION OF ARROW D.

③ REMOVE THE FPC ASS'Y MIC IN THE DIRECTION OF ARROW A.

⑭ REMOVE THE ASS'Y MIC IN THE DIRECTION OF ARROW E.

① REMOVE 2 SCREWS.
(TAP ; 2X4)

④ DISCONNECT THE CONNECTOR FROM THE CN763 OF ASS'Y MIC BOARD.

② DISCONNECT THE ASS'Y FPC MIC FROM THE CN761 OF ASS'Y MIC BOARD.

⑬ REMOVE 2 SCREWS.
(TAP TITE ; BH)

⑤ REMOVE 2 SCREWS.
(TAP ; 2X4)

⑥ REMOVE THE ASS'Y MIC BOARD IN THE DIRECTION OF ARROW B.

⑦ REMOVE THE SPRING COVER (2) FROM THE COVER ROTATE OF HOOK ⓐ AND HOLDER LENS COVER OF HOOK ⓑ.

⑧ REMOVE THE COVER ROTATE IN THE DIRECTION OF ARROW C AFTER PUSHING THE 3 TABS ⓒ.

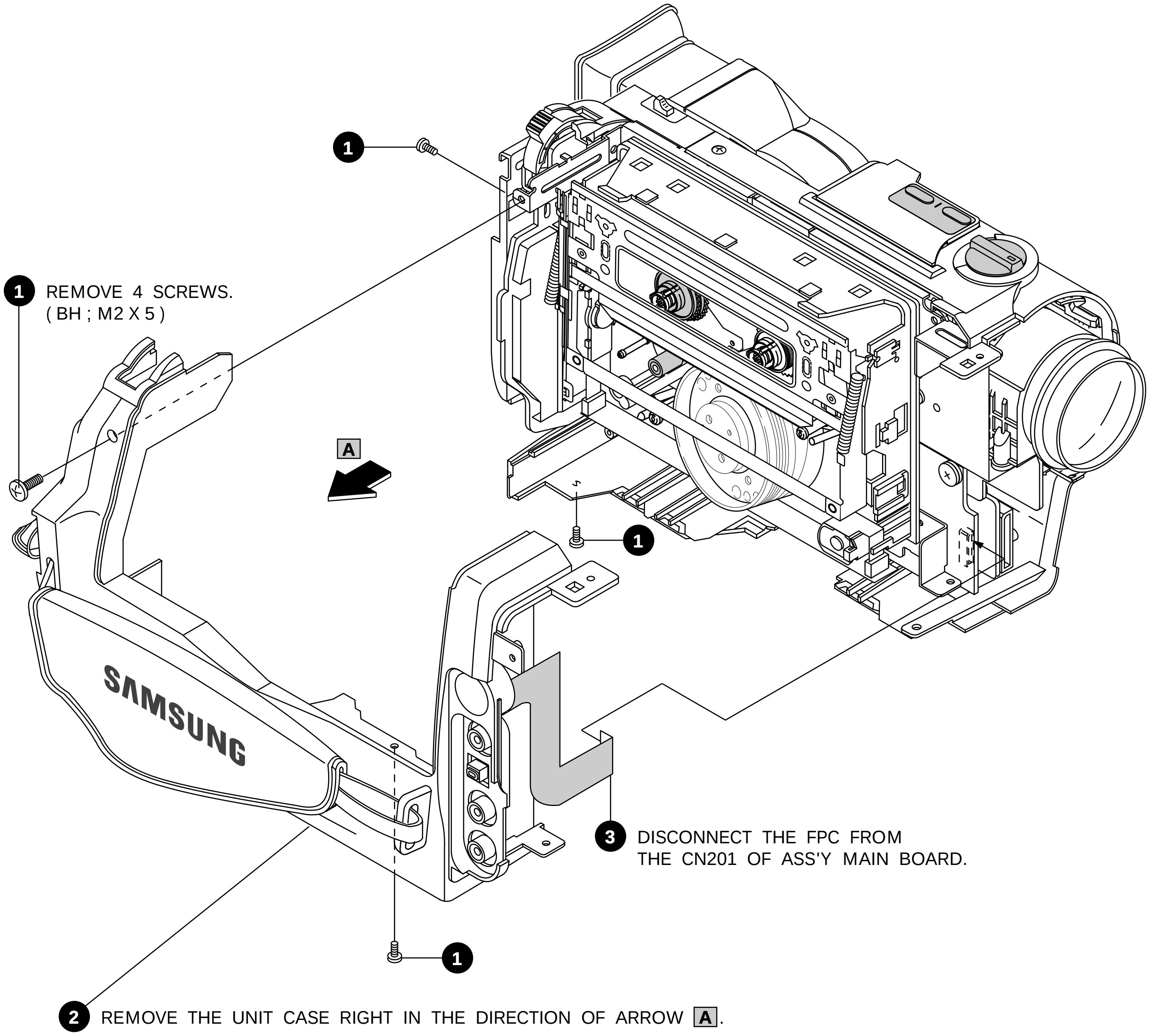
⑨ REMOVE THE SPRING COVER FROM THE HOLDER LENS COVER HOOK ⓓ, ⓔ AND HOLDER LENS A HOOK ⓕ.

⑩ REMOVE 3 SCREWS.
(TAP ; 2X4)

⑪ REMOVE THE HOLDER LENS COVER.

Fig. 4-4 Ass’y Front Removal (2)

4-1-5 Unit Case Right Removal



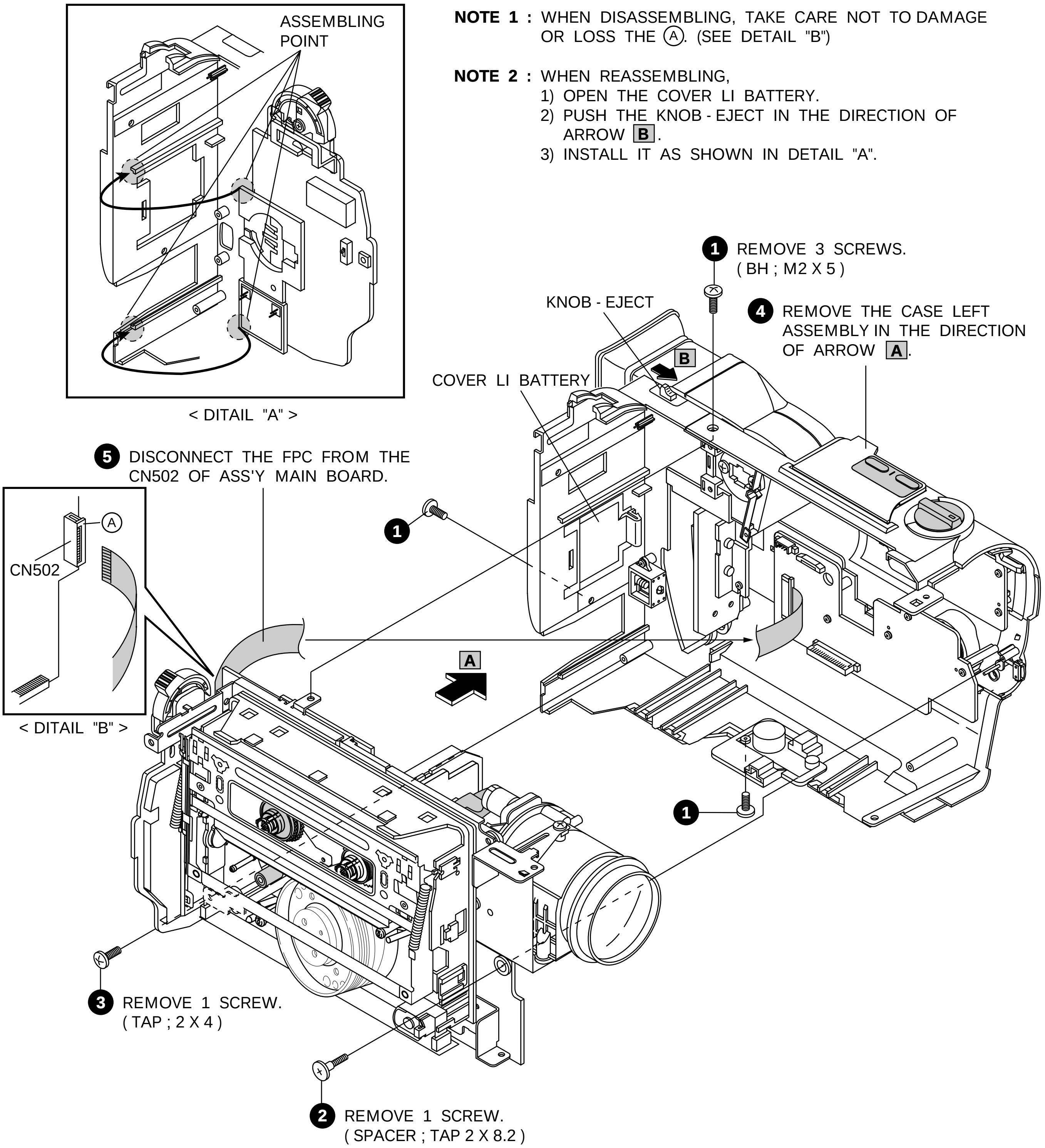
1 REMOVE 4 SCREWS.
(BH ; M2 X 5)

2 REMOVE THE UNIT CASE RIGHT IN THE DIRECTION OF ARROW A.

3 DISCONNECT THE FPC FROM
THE CN201 OF ASS'Y MAIN BOARD.

Fig. 4-5 Unit Case Right Removal

4-1-6 Ass’y Case Left Removal (1)


ASSEMBLING POINT
< DITAIL "A" >
Ⓐ
CN502
< DITAIL "B" >
KNOB - EJECT
COVER LI BATTERY
B
A

NOTE 1 : WHEN DISASSEMBLING, TAKE CARE NOT TO DAMAGE OR LOSS THE Ⓐ. (SEE DETAIL "B")

NOTE 2 : WHEN REASSEMBLING,
1) OPEN THE COVER LI BATTERY.
2) PUSH THE KNOB - EJECT IN THE DIRECTION OF ARROW **B**.
3) INSTALL IT AS SHOWN IN DETAIL "A".

❶ REMOVE 3 SCREWS.
(BH ; M2 X 5)

❷ REMOVE 1 SCREW.
(SPACER ; TAP 2 X 8.2)

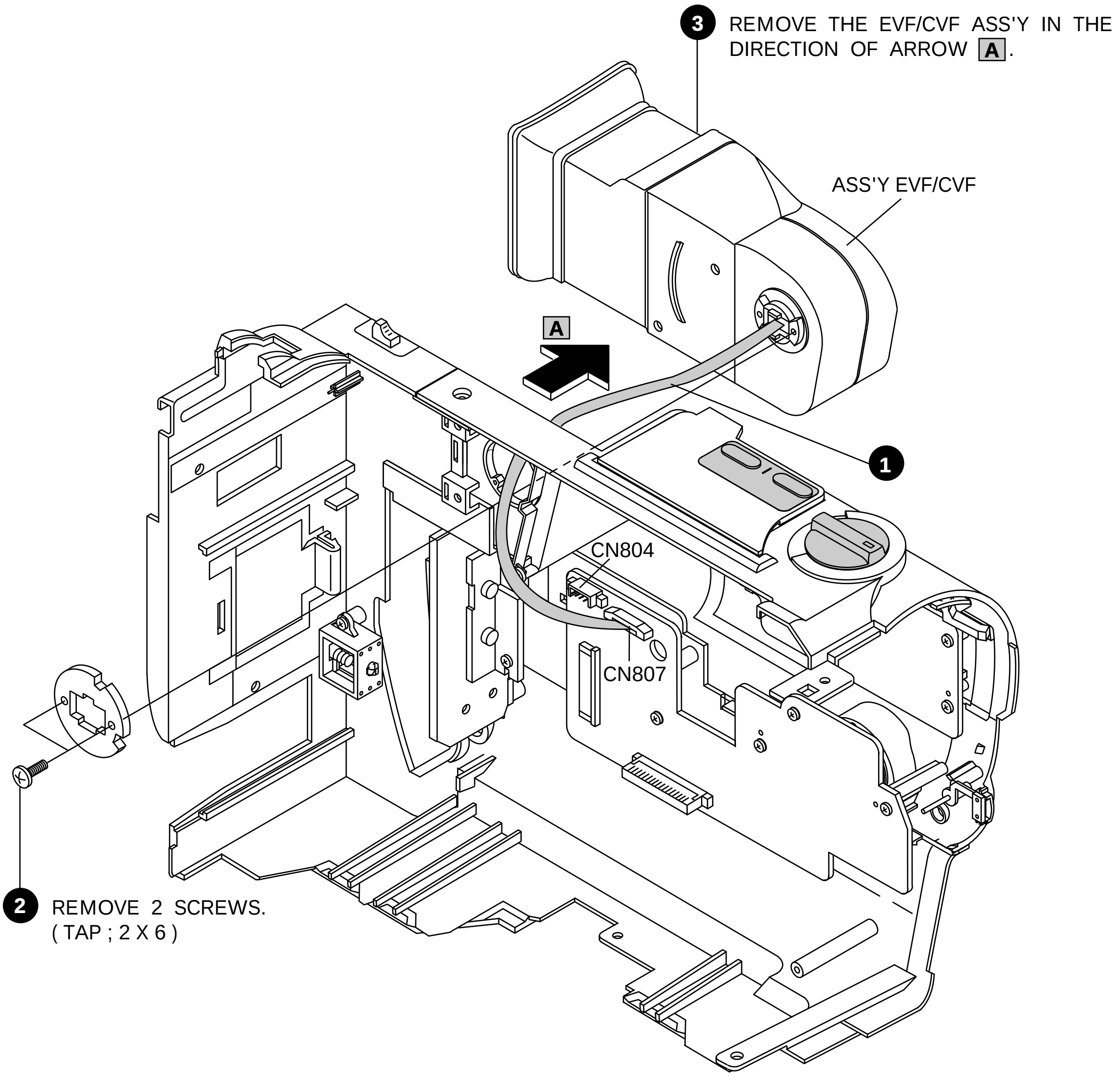
❸ REMOVE 1 SCREW.
(TAP ; 2 X 4)

❹ REMOVE THE CASE LEFT ASSEMBLY IN THE DIRECTION OF ARROW **A**.

❺ DISCONNECT THE FPC FROM THE CN502 OF ASS'Y MAIN BOARD.

Fig. 4-6 Ass’y Case Left Removal (1)

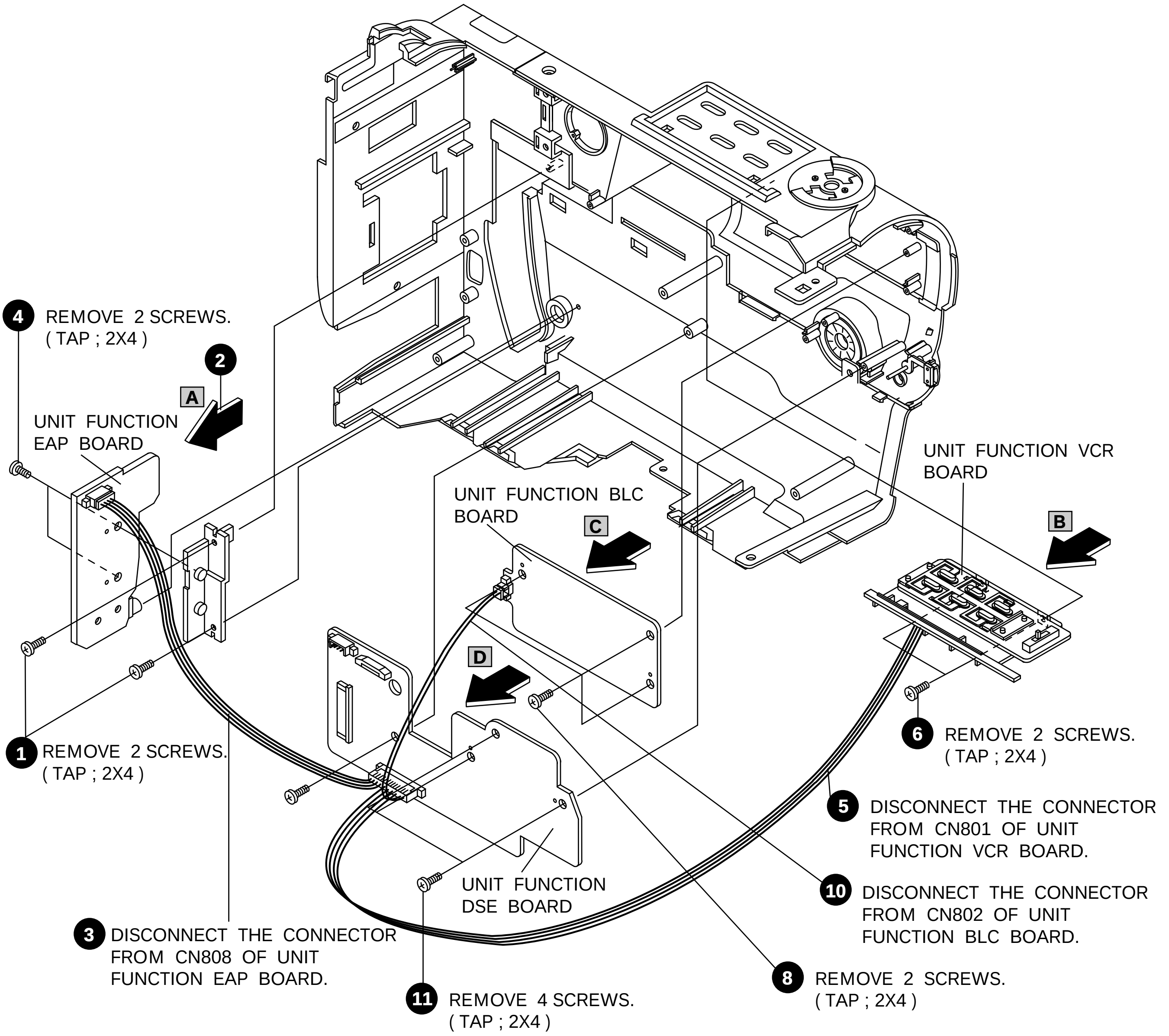
4-1-7 Ass’y EVF/CVF Removal


3 REMOVE THE EVF/CVF ASS'Y IN THE DIRECTION OF ARROW A.
ASS'Y EVF/CVF
A
1
CN804
CN807
2 REMOVE 2 SCREWS.
(TAP ; 2 X 6)

① CVF : DISCONNECT THE FPC FROM THE CN807 OF UNIT FUNCTION DSE BOARD.
EVF : DISCONNECT THE LEAD CONNECTOR ASS'Y FROM THE CN804 OF UNIT FUNCTION DSE BOARD.

Fig. 4-7 Ass’y EVF/CVF Removal

4-1-8 Ass’y Case Left Removal (2)


UNIT FUNCTION EAP BOARD
A
UNIT FUNCTION BLC BOARD
C
UNIT FUNCTION VCR BOARD
B
D
UNIT FUNCTION DSE BOARD

4 REMOVE 2 SCREWS. (TAP ; 2X4)

1 REMOVE 2 SCREWS. (TAP ; 2X4)

6 REMOVE 2 SCREWS. (TAP ; 2X4)

5 DISCONNECT THE CONNECTOR FROM CN801 OF UNIT FUNCTION VCR BOARD.

10 DISCONNECT THE CONNECTOR FROM CN802 OF UNIT FUNCTION BLC BOARD.

3 DISCONNECT THE CONNECTOR FROM CN808 OF UNIT FUNCTION EAP BOARD.

8 REMOVE 2 SCREWS. (TAP ; 2X4)

11 REMOVE 4 SCREWS. (TAP ; 2X4)

2 REMOVE THE UNIT FUNCTION EAP BOARD IN THE DIRECTION OF ARROW A.

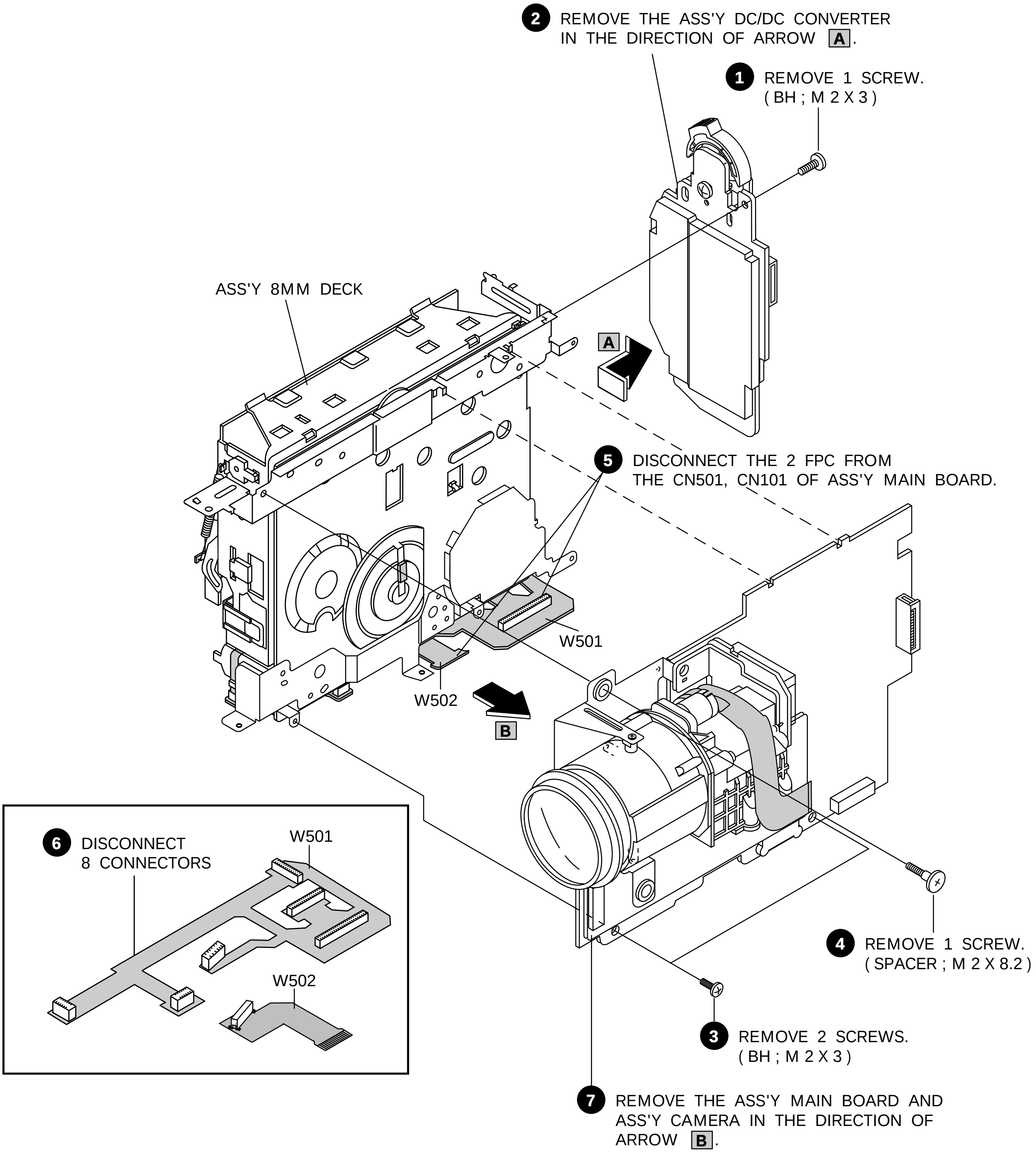
7 REMOVE THE UNIT FUNCTION VCR BOARD IN THE DIRECTION OF ARROW B.

9 REMOVE THE UNIT FUNCTION BLC BOARD IN THE DIRECTION OF ARROW C.

12 REMOVE THE UNIT FUNCTION DSE BOARD IN THE DIRECTION OF ARROW D.

Fig. 4-8 Ass’y Case Left Removal (2)

4-1-9 Ass’y 8mm Deck, Ass’y Main Board and DC/DC Converter Removal



❶ REMOVE 1 SCREW.
(BH ; M 2 X 3)

❷ REMOVE THE ASS'Y DC/DC CONVERTER
IN THE DIRECTION OF ARROW A.

❸ REMOVE 2 SCREWS.
(BH ; M 2 X 3)

❹ REMOVE 1 SCREW.
(SPACER ; M 2 X 8.2)

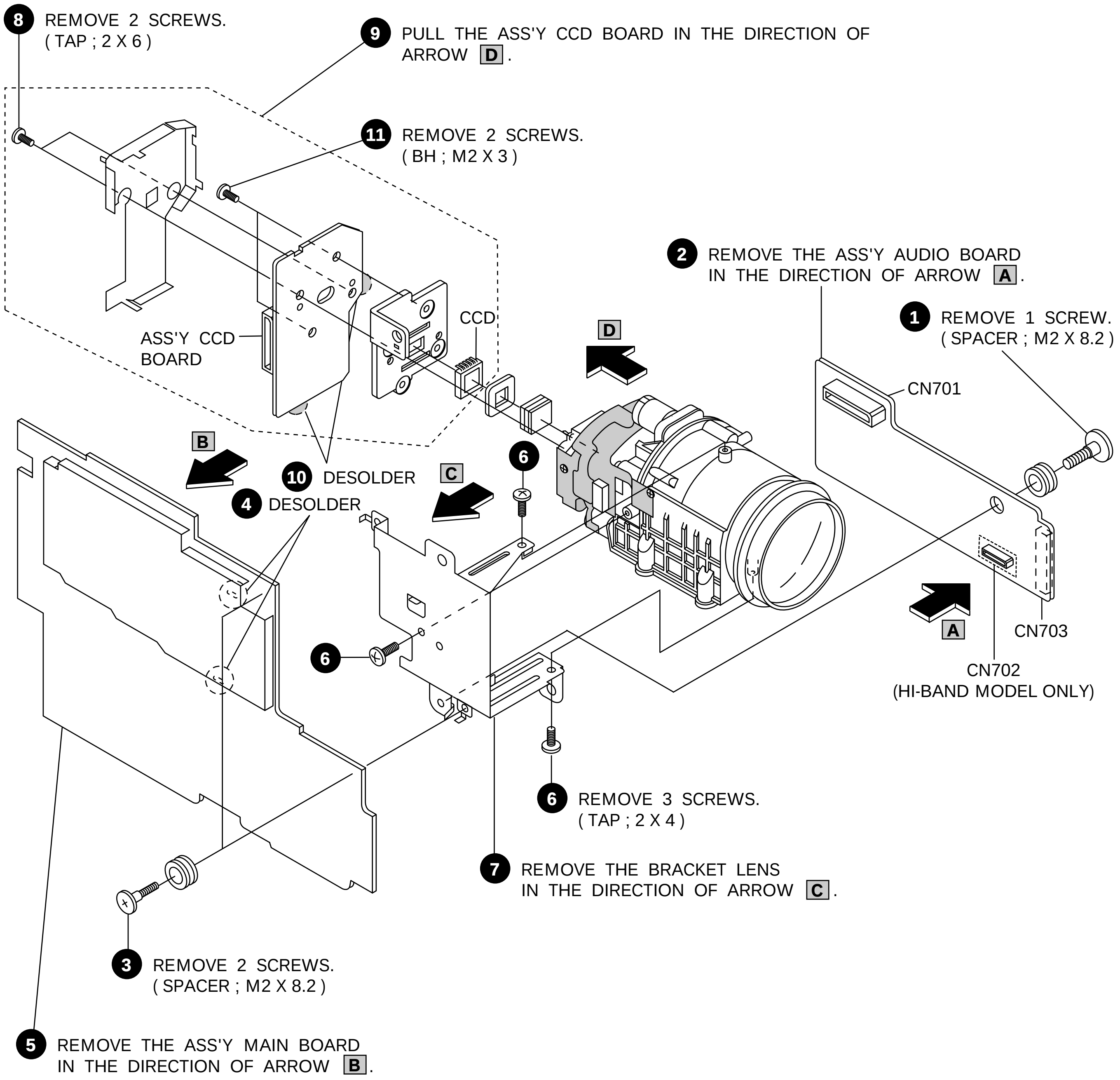
❺ DISCONNECT THE 2 FPC FROM
THE CN501, CN101 OF ASS'Y MAIN BOARD.

❻ DISCONNECT
8 CONNECTORS

❼ REMOVE THE ASS'Y MAIN BOARD AND
ASS'Y CAMERA IN THE DIRECTION OF
ARROW B.

Fig. 4-9 Ass’y 8mm Deck, Ass’y Main Board and DC/DC Converter Removal

4-1-10 Ass’y Main Board and Ass’y Camera Removal



① REMOVE 1 SCREW.
(SPACER ; M2 X 8.2)

② REMOVE THE ASS'Y AUDIO BOARD
IN THE DIRECTION OF ARROW A.

③ REMOVE 2 SCREWS.
(SPACER ; M2 X 8.2)

④ DESOLDER

⑤ REMOVE THE ASS'Y MAIN BOARD
IN THE DIRECTION OF ARROW B.

⑥ REMOVE 3 SCREWS.
(TAP ; 2 X 4)

⑦ REMOVE THE BRACKET LENS
IN THE DIRECTION OF ARROW C.

⑧ REMOVE 2 SCREWS.
(TAP ; 2 X 6)

⑨ PULL THE ASS'Y CCD BOARD IN THE DIRECTION OF
ARROW D.

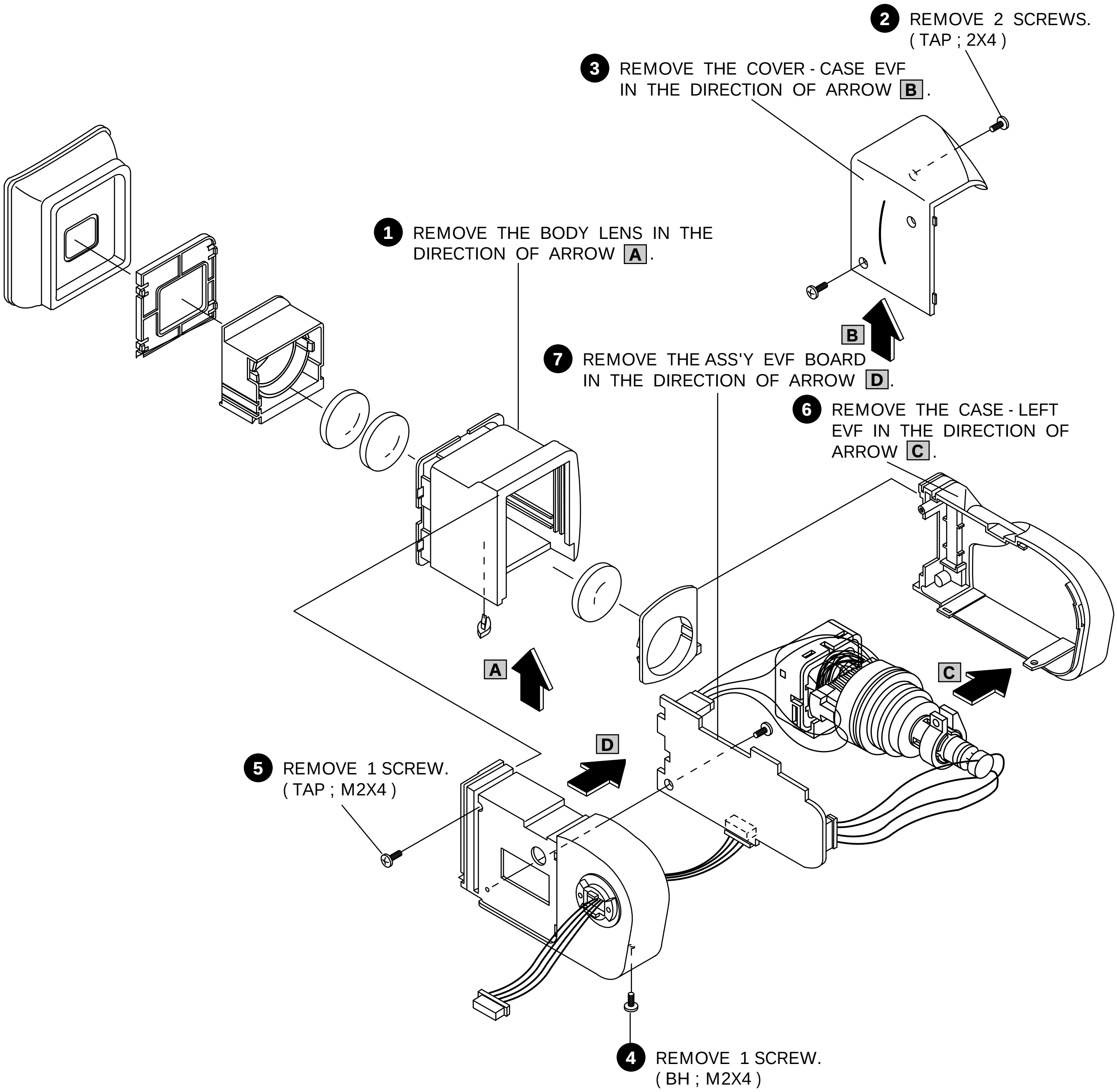
⑩ DESOLDER

⑪ REMOVE 2 SCREWS.
(BH ; M2 X 3)

ASS'Y CCD BOARD
CCD
D
B
C
6
6
CN701
CN703
A
CN702
(HI-BAND MODEL ONLY)

Fig. 4-10 Ass’y Main Board and Ass’y Camera Removal

4-1-11 Ass’y EVF Removal



❶ REMOVE THE BODY LENS IN THE DIRECTION OF ARROW A .

❷ REMOVE 2 SCREWS.
(TAP ; 2X4)

❸ REMOVE THE COVER - CASE EVF IN THE DIRECTION OF ARROW B .

❹ REMOVE 1 SCREW.
(BH ; M2X4)

❺ REMOVE 1 SCREW.
(TAP ; M2X4)

❻ REMOVE THE CASE - LEFT EVF IN THE DIRECTION OF ARROW C .

❼ REMOVE THE ASS'Y EVF BOARD IN THE DIRECTION OF ARROW D .

Fig. 4-11 Ass’y EVF Removal

4-1-12 Ass’y CVF Removal

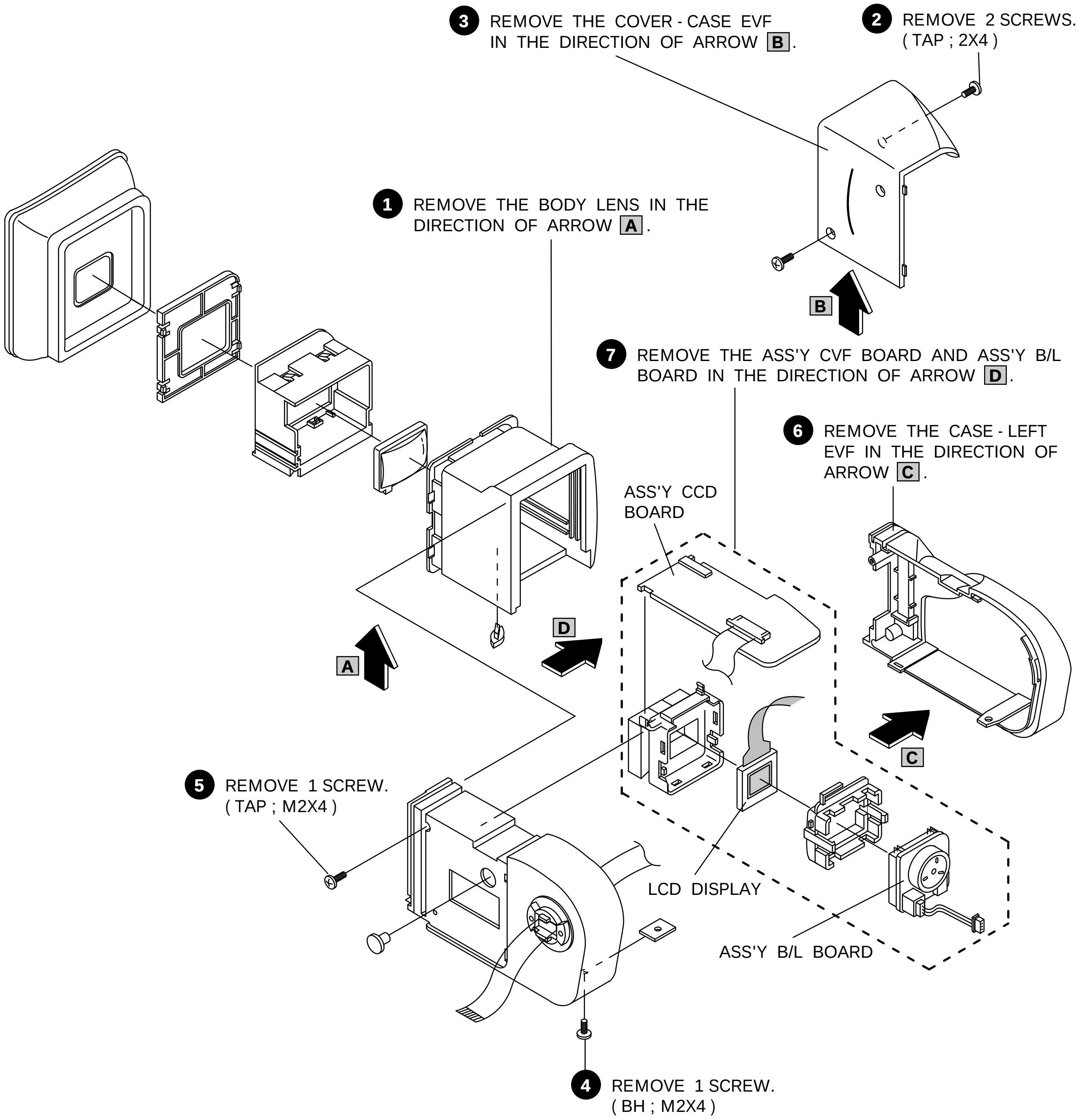
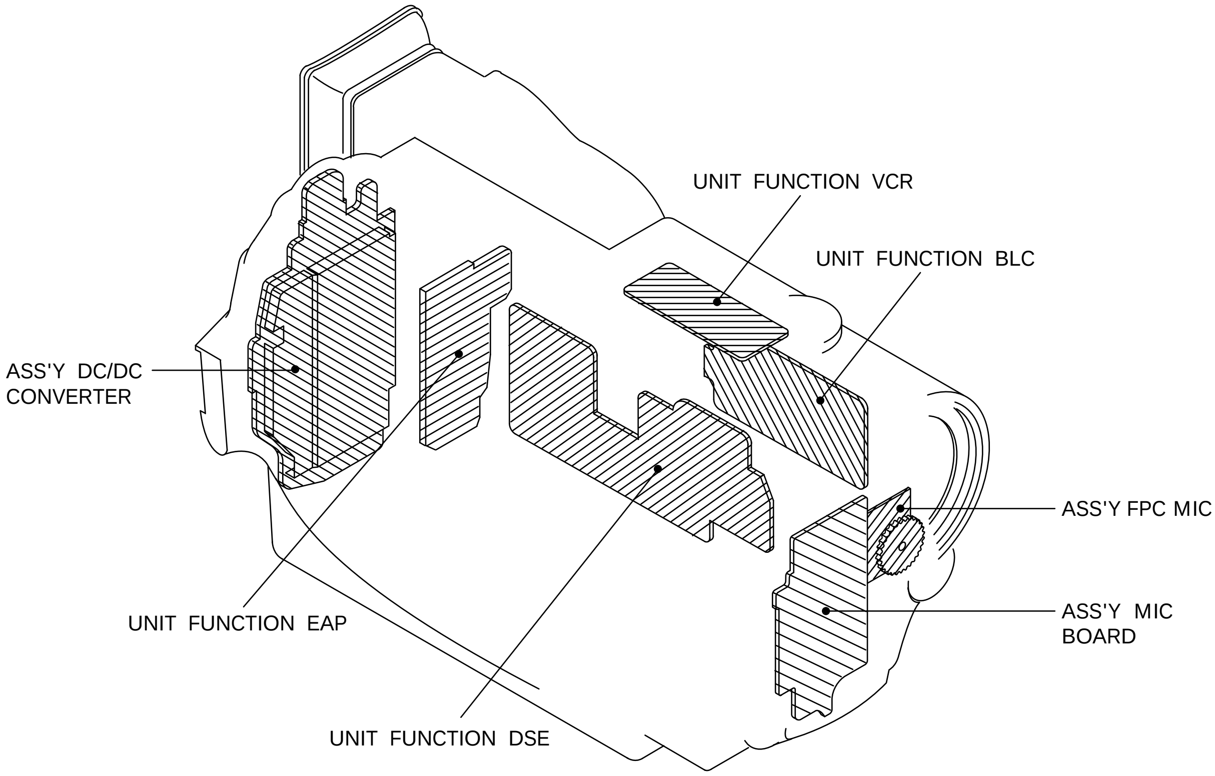

3 REMOVE THE COVER - CASE EVF IN THE DIRECTION OF ARROW B.
2 REMOVE 2 SCREWS. (TAP ; 2X4)
1 REMOVE THE BODY LENS IN THE DIRECTION OF ARROW A.
B
7 REMOVE THE ASS'Y CVF BOARD AND ASS'Y B/L BOARD IN THE DIRECTION OF ARROW D.
6 REMOVE THE CASE - LEFT EVF IN THE DIRECTION OF ARROW C.
ASS'Y CCD BOARD
D
A
C
5 REMOVE 1 SCREW. (TAP ; M2X4)
LCD DISPLAY
ASS'Y B/L BOARD
4 REMOVE 1 SCREW. (BH ; M2X4)

Fig. 4-12 Ass’y CVF Removal

4-2 Circuit Boards Location


UNIT FUNCTION VCR
UNIT FUNCTION BLC
ASS'Y DC/DC CONVERTER
ASS'Y FPC MIC
ASS'Y MIC BOARD
UNIT FUNCTION EAP
UNIT FUNCTION DSE

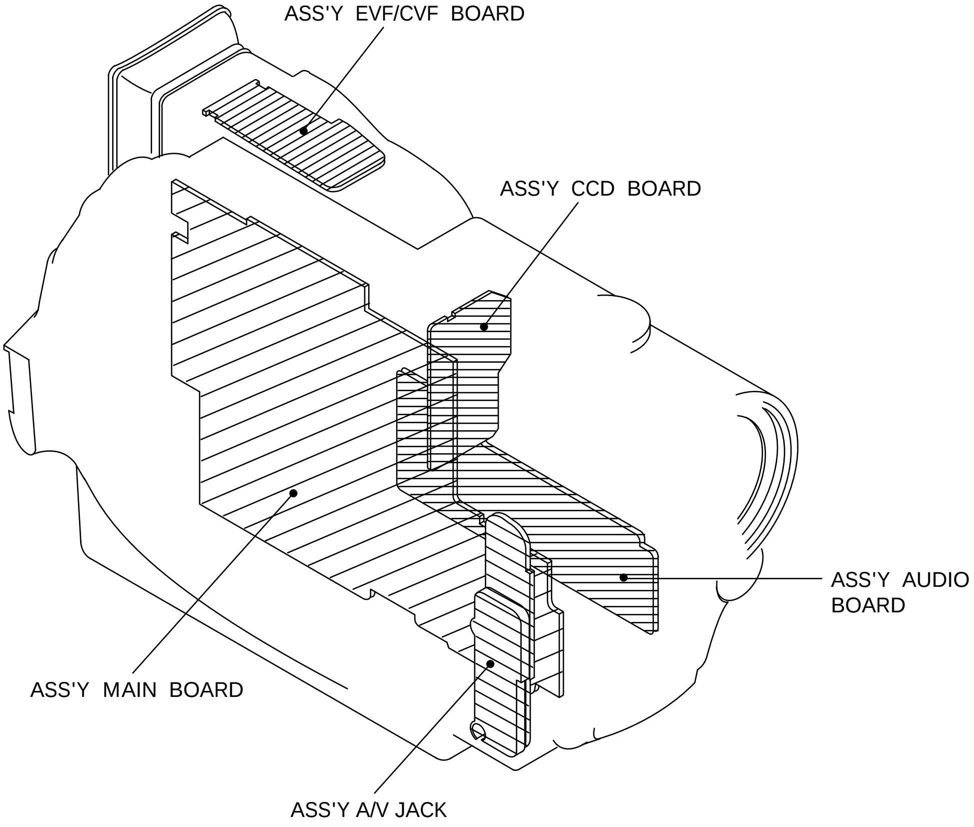
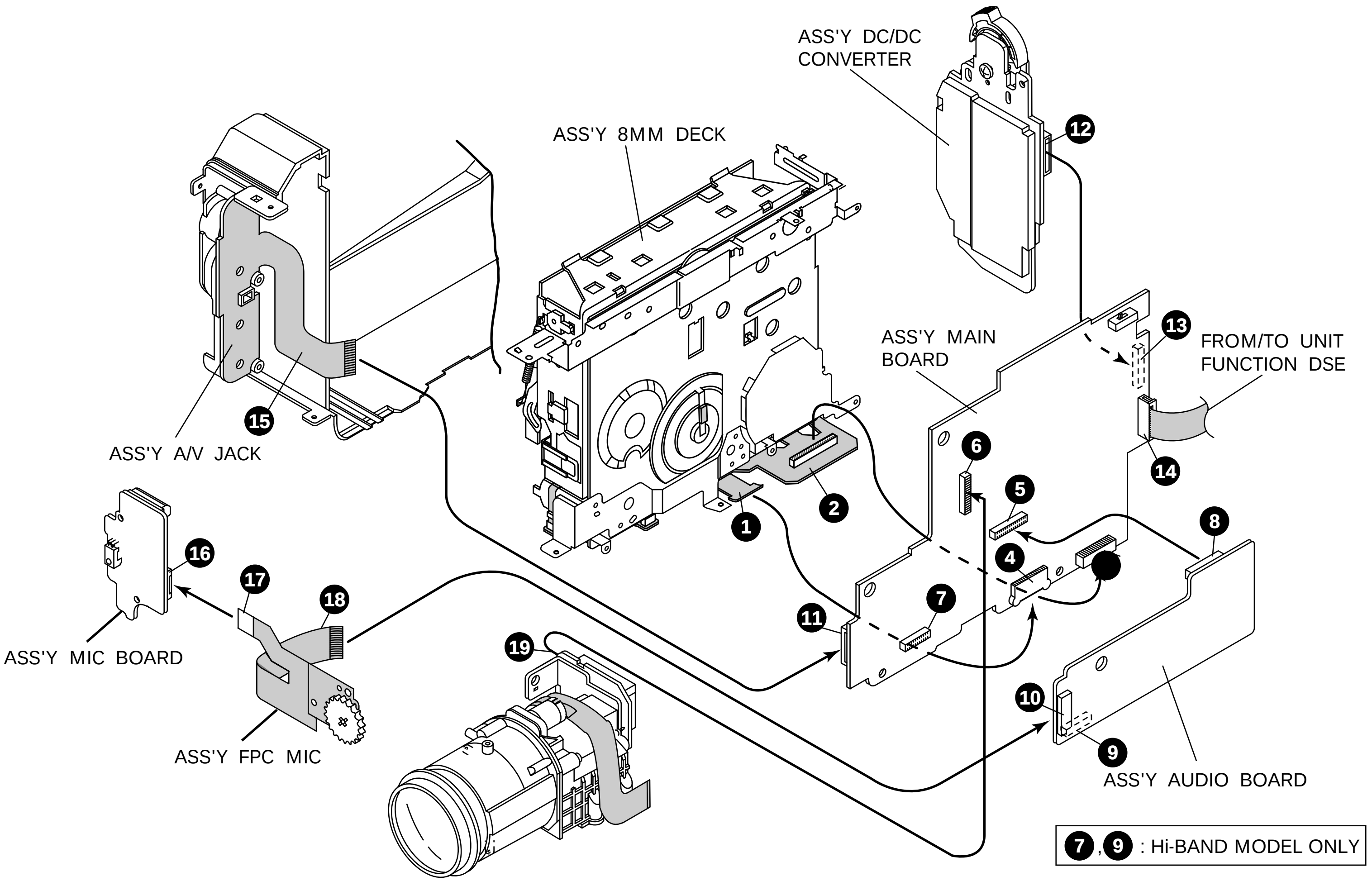

ASS'Y EVF/CVF BOARD
ASS'Y CCD BOARD
ASS'Y AUDIO BOARD
ASS'Y MAIN BOARD
ASS'Y A/V JACK

Fig. 4-13 Circuit Boards Location

4-3 Connector Diagrams

4-3-1 Diagram(1)

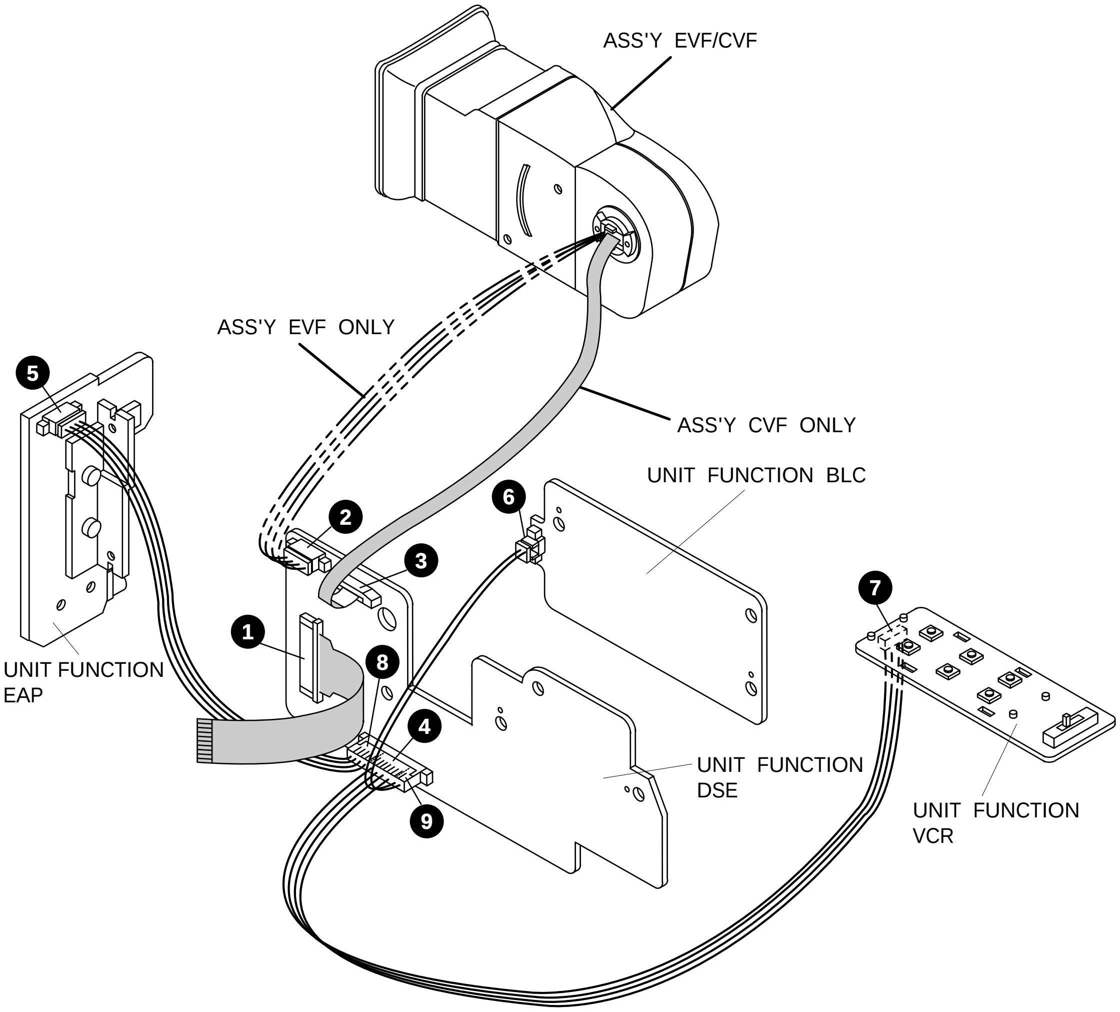

ASS'Y DC/DC CONVERTER
ASS'Y 8MM DECK
ASS'Y MAIN BOARD
FROM/TO UNIT FUNCTION DSE
ASS'Y A/V JACK
ASS'Y MIC BOARD
ASS'Y FPC MIC
ASS'Y AUDIO BOARD
1
2
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19

7, 9 : Hi-BAND MODEL ONLY

Fig. 4-14 Circuit Boards Location

NO	CONN.WAFER LOCA-NO	DIRECTION	CONN.WAFER LOCA-NO	NO	CONN.WAFER LOCA-NO	DIRECTION	CONN.WAFER LOCA-NO
1	W502	FROM/TO ASS'Y MAIN BOARD	CN101	2	W501	FROM/TO ASS'Y MAIN BOARD	CN501
3	CN501	FROM/TO ASS'Y 8MM DECK	W501	4	CN101	FROM/TO ASS'Y 8MM DECK	W502
5	CN203	ASS'Y MAIN BOARD ↔ ASS'Y AUDIO BOARD	CN701	6	CNP01	ASS'Y MAIN BOARD ↔ ASS'Y CCD BOARD	CND02
7	CN202	ASS'Y MAIN BOARD ↔ ASS'Y AUDIO BOARD	CN703	8	CN701	ASS'Y AUDIO BOARD ↔ ASS'Y MAIN BOARD	CN203
9	CN703	ASS'Y AUDIO BOARD ↔ ASS'Y MAIN BOARD	CN202	10	CN702	ASS'Y AUDIO BOARD ↔ ASS'Y FPC MIC	-
11	CN201	ASS'Y MAIN BOARD ↔ ASS'Y AV JACK	-	12	CN901	ASS'Y DC/DC CONVERTER ↔ ASS'Y MAIN BOARD	CN503
13	CN503	ASS'Y MAIN BOARD ↔ ASS'Y DC/DC CONVERTER	CN901	14	CN502	ASS'Y MAIN BOARD ↔ UNIT FUNCTION DSE	CN805
15	-	ASS'Y AV JACK ↔ ASS'Y MAIN BOARD	CN201	16	CN761	FROM/TO ASS'Y FPC MIC	-
17	-	FROM/TO ASS'Y MIC BOARD	CN761	18	-	ASS'Y FPC MIC ↔ ASS'Y AUDIO BOARD	CN702
19	CND01	ASS'Y CCD BOARD ↔ ASS'Y MAIN BOARD	CNP01				

4-3-2 Diagram(2)


ASS'Y EVF/CVF
ASS'Y EVF ONLY
ASS'Y CVF ONLY
UNIT FUNCTION BLC
5
6
2
3
7
1
8
4
9
UNIT FUNCTION EAP
UNIT FUNCTION DSE
UNIT FUNCTION VCR

NO	CONN.WAFER LOCA-NO	DIRECTION	CONN.WAFER LOCA-NO
1	CN805	UNIT FUNCTION DSE↔ASS'Y MAIN BOARD	CN502
2	CN804	UNIT FUNCTION DSE↔ASS'Y EVF	-
3	CN807	UNIT FUNCTION DSE↔ASS'Y CVF	-
4	CN806	UNIT FUNCTION DSE↔UNIT FUNCTION VCR	CN801
5	CN808	UNIT FUNCTION EAP↔UNIT FUNCTION DSE	CN806
6	CN802	UNIT FUNCTION BLC↔UNIT FUNCTION DSE	CN806
7	CN801	UNIT FUNCTION VCR↔UNIT FUNCTION DSE	CN806
8	CN806	UNIT FUNCTION DSE↔UNIT FUNCTION EAP	CN808
9	CN806	UNIT FUNCTION DSE↔UNIT FUNCTION BLC	CN802

MEMO

5. Alignment and Adjustment

5-1 Mechanical Adjustment

1. Refer to mechanical manual “DE-6 (AD68-30200A)” for the adjustment and checks of mechanism section.
2. Short between pin 12 of IC601 and GND in order to set the TEST mode (Track Shift Mode).
3. The location of test point (See Fig.1)

Test Point :
PB RF - Pin 23 of CTP01
Head Switching Trigger - Pin 19 of CTP01

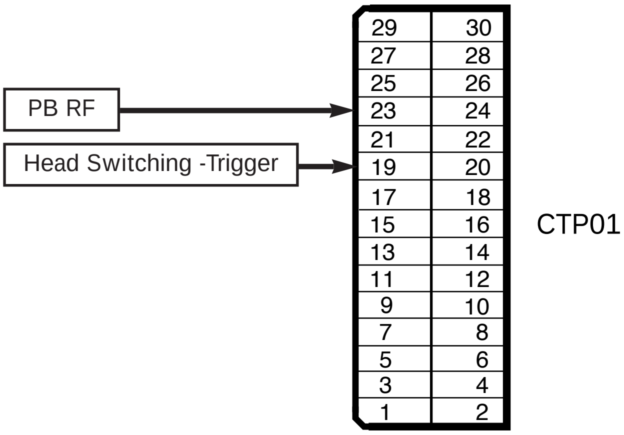
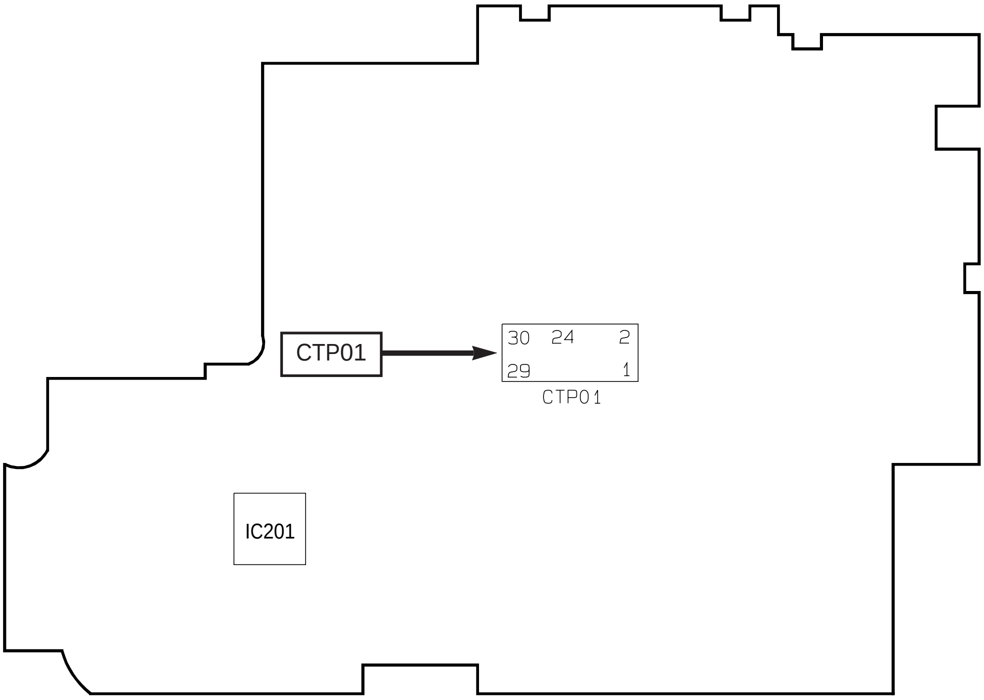

PB RF
Head Switching -Trigger
29 30
27 28
25 26
23 24
21 22
19 20
17 18
15 16
13 14
11 12
9 10
7 8
5 6
3 4
1 2
CTP01

Fig. 1

4. After completing the adjustment, open the pin 12 of IC601 and GND to release the TEST mode.


CTP01
30 24 2
29 1
CTP01
IC201

Main PCB (Component side)

Fig. 2 The location of test point

5-2 Camera Section Adjustment

Note :

1. This system has
   1) EVR (Electronic Variable Resistor) control method by D/A converter instead of VR control method.
   2) EEPROM to store the confirmed adjustment data.
   3) DSP (Digital Signal Process ; ICP05 - Main board) chip to process the signal of camera parts.
   4) One test point for the frequency adjustment of DSP main clock (P. CLK).
   5) The special mode for camera adjustment using remote control card.

2. Keep in mind
   1) Readjustment is needed when the EEPROM (ICA07 of Main board) is replaced. The reason is that EEPROM stores confirmed adjustment value of each adjustment step.
   2) All adjustment steps should be performed using the remote control card.
   3) Be sure to perform the adjustment under installing all Assy-Main, CCD, Audio, Front, P.AE, Rear, Terminal board with the unit because remote module is on Front board.

5-2-1 Preparations

1. Equipments to be used

1) DC Power supply
2) Oscilloscope
3) Frequency counter
4) Vectorscope
5) Waveform monitor
6) Colour monitor or TV
7) Various charts
   - Colour bar chart
   - Gray-scale chart, etc...
8) Alignment tape (Lion pattern)
9) Remote control card (Part No.: AD59-10379A)

2. Composition of camera P.C.Boards

1) Main PCB 2) CCD PCB
3) EVF PCB 4) CVF PCB

3. Adjustment preparations

1) Remote control card is used as a camera adjust tool.
2) Press the confirm button when each manual adjustment step is completed to write the adjustment data to the EEPROM.
3) After each adjustment step is completed, OSD shows “OK!”.
4) To cancel the adjustment mode, remove the power source.

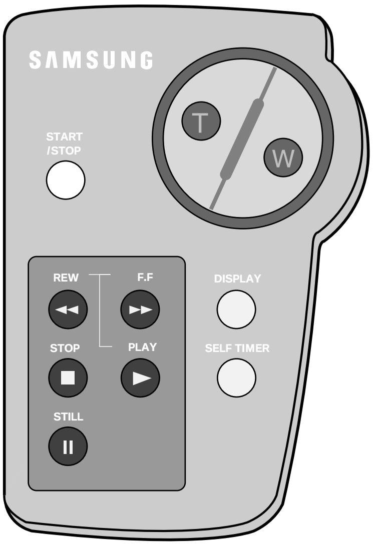
4. Remote control

The following is a chart explaining the use of each button :

Using Button	Adjustment
START/STOP(CONFIRM)	Data store after finishing adjustment by DATA UP/DOWN button.
REW (DATA DOWN) FF (DATA UP)	When changing data value of adjust state.
STILL (MODE UP) DISPLAY (MODE DOWN)	Mode change.
STOP (FAR) PLAY (NEAR)	Focus adjustment.
ZOOM (WIDE) (TELE)	Used for manual focus adjustment.

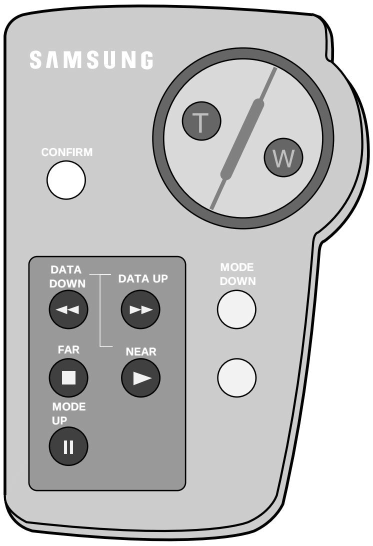
This remote control(accessory unit) is used to control the camcorder additionally, card remote control (Parts No. AD59-10379A) should be used for adjustment of the camera section.

Remote for camcorder
Adjust for jig (Part No. : AD59-10379A)



Reassignment
in the
adjustment mode

Figure of button placement when remote is
used for service adjustment.



Note : In service adjustment mode, button names are different from those in customer camera function control mode. EX) Start/stop button is the same as confirm.

5. How to get into service “**ADJUST**” mode

STEP 1

1. Remove the lithium battery from the camcorder.
2. Connect the power source (battery/ DC cable).
3. Eject the tape if it is in the unit.
4. Set the power switch of the camcorder to “CAMERA” position.
5. Set OSD on state.

STEP 2

1. Press and hold “DATE” button on camcorder for more than 3 seconds, then it goes into “CLOCK SET” mode. One of the digits will blink.
2. PRESS “STILL” Button 4 times on the camcorder so blinks “00” on the screen.
3. Rotate the DSE dial on the camcorder until “NEGA” shows on the screen.
4. Press and hold the “C/RESET” button and “REW” button on the camcorder at the same time for more than 3 seconds. Then unit goes into service mode. “ADJUST?” blinks on the screen. This indicates that you are ready to adjust any electronic variable resistors.

OSD →

12 :“00”: AM
1.JAN.1997

STEP 3

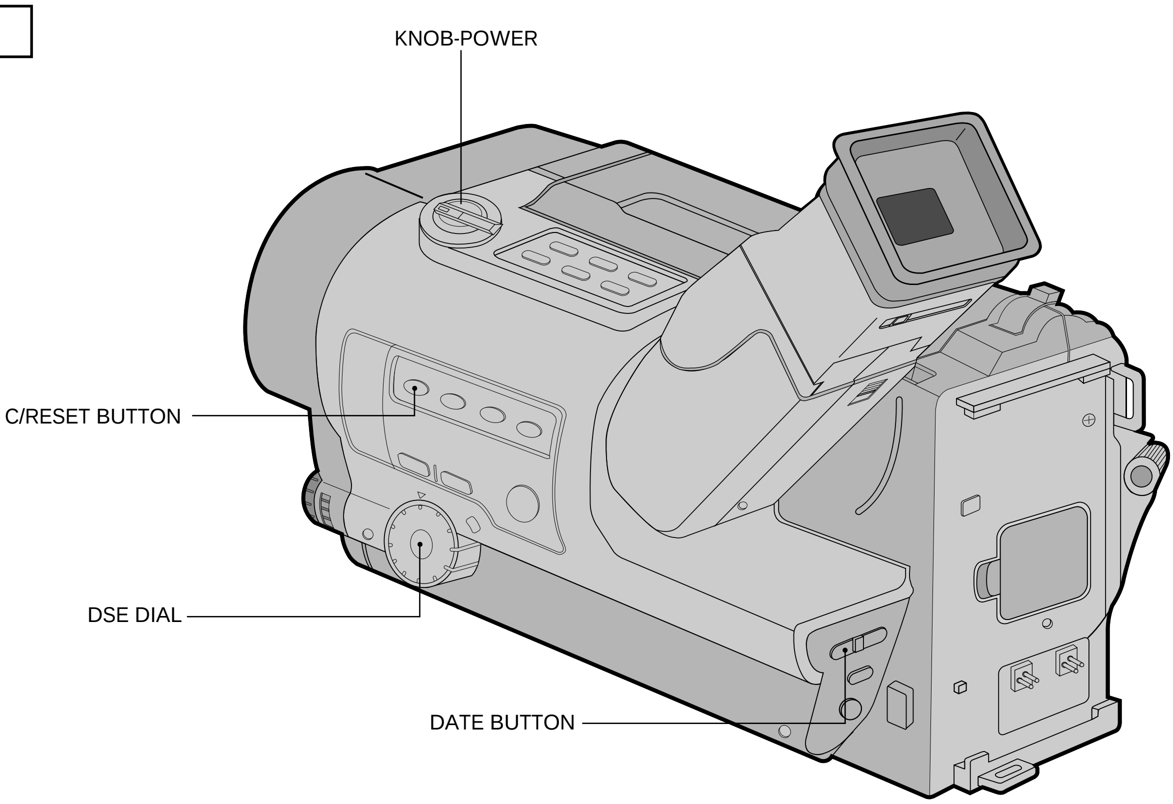
“ADJUST ?” will now be blinking at the center of screen. Now press “START/STOP” button of the remote control.

On screen display show “E2 HALLA XX XX” CAMERA ADJUSTMENT mode has successfully been activated.

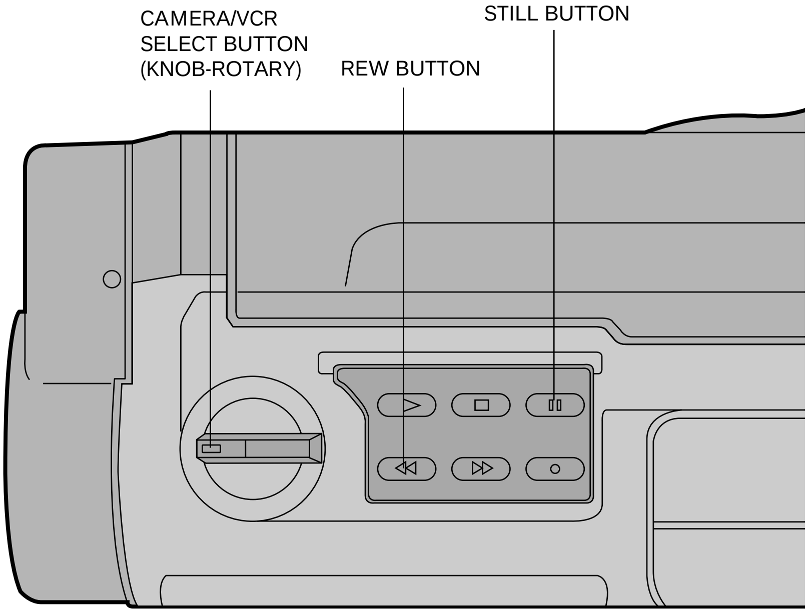
Note : When “XX XX” is shown in service adjustment precedures, this indicates variable values.

5. The location of function button.

SET


KNOB-POWER
C/RESET BUTTON
DSE DIAL
DATE BUTTON

(LEFT VIEW)


CAMERA/VCR
SELECT BUTTON
(KNOB-ROTARY)
REW BUTTON
STILL BUTTON

(TOP VIEW)

6. Initial data of camera parts adjustment

During camera adjustment, the OSD displays the following abbreviations to indicate the selected mode.

Example) " 00 XXXX XX XX "

Note : "Data 1" is previous setting in memory, "Data 2" is now adjustment setting, that changes during adjustment mode. After pressing "START/STOP (Confirm)", it goes to memory.

MODE	OSD	DATA1	DATA2	NAME OF ADJUSTMENT
E2	HALLA	FF	FF	HALL AUTO ADJ.
E0	IRISA	FF	FF	IRIS AUTO ADJ. : IRIS CONTROL RANGE
E3	WBA	FF	FF	W/B AUTO ADJ.
E4	LENSA	FF	FF	LENS AUTO ADJ.
D6	Z.CHK	80	80	ZOOM VR A/D CENTER
02	ADREF	70	70	A/D INPUT SIGNAL DC LEVEL ADJ.
03	VREF	3B	3B	Y/C OUTPUT LEVEL OF DSP.
04	P.CLK	40	40	P.CLK ADJUST
05	AGC 1	80	80	AGC CONTROL 1
07	IRIS 1	90	90	IRIS CONTROL 1 ---> #89(AE TARGET)
0C	HAPER	98	98	H AP. FILT SEL/HORIZINTAL APETURE GAIN
0D	YSEL	FA	FA	Y SEL/EDGE CS/Hi L CS
				VERTICAL APERTURE GAIN
1D	CWBR	3D	3D	COLOR W/B COEFF. OF Cr SIGNAL
1E	CWBB	90	90	COLOR W/B COEFF OF Cb SIGNAL
33	CRGP	4A	4A	R-Y POSITIVE GAIN
34	CRGN	50	50	R-Y NEGATIVE GAIN
35	CHYE	0A	0A	R-Y HUE POSITIVE GAIN
36	CHB	10	10	R-Y HUE NEGATIVE GAIN
37	CBGP	30	30	B-Y POSITIVE GAIN
38	CBGN	22	22	B-Y NEGATIVE GAIN
39	CHGR	29	29	B-Y HUE POSITIVE GAIN
57	ROUGP	38	38	OUTDOOR R-Y POSITIVE GAIN
58	ROUGN	2C	2C	OUTDOOR R-Y NEGATIVE GAIN
59	CHOYE	08	08	OUTDOOR R-Y POSITIVE HUE
5A	CHOB	18	18	OUTDOOR R-Y NEGATIVE HUE
5B	BOUGP	38	38	OUTDOOR B-Y POSITIVE GAIN
5C	BOUGN	2A	2A	OUTDOOR B-Y NEGATIVE GAIN
5D	CHOGR	38	38	OUTDOOR B-Y POSITIVE HUE
5E	CHOR	28	28	OUTDOOR B-Y NEGATIVE HUE
73	ECGAN	A0	A0	COLOR GAIN CONTROL
74	ESU	00	00	ECIFI,ECSFCI,LUMINANCE SETUP LEVEL
75	EWC	F0	F0	WHITE CLIP CONTROL
77	EUSC	EB	EB	U(B-Y) SIGNAL BURST LEVEL CONTROL
78	EVSC	16	16	V(R-Y) SIGNAL BURST LEVEL CONTROL
79	CBHN	09	09	B-Y HUE NEGATIVE GAIN
7D	XKCON	06	06	XCK CT,OSIMSE,MMSEL,HSEL,VSEL,SCK CT,UVCK
7E	MDSEL	05	05	SYNC S,EXT DA,C4:2:3,WIDE,LPF SE,PAL,Hi-8, D/Z
89	AETAR	67	67	AE TARGET
8D	AE SPD	40	40	IRIS CLOSE SPEED CONTROL
90	AGCMA	CA	CA	AGC MAXIMUN VALUE
91	CFADR	04	04	CHROMA FADE RATIO OF AGC MAX
92	CFADS	98	98	AGC VALUE OF CHROMA FADE START
93	APNSL	FE	FE	AGC ON APPERTURE NOISE SLICE LEVEL FACTOR
97	BLKST	98	98	EYBLK START POINT(AGC)
98	BLKMA	00	00	EYBLK MAXIMUM VALUE(#74)
9C	R-IN	40	40	W/B R INDOOR CONTROL VALUE
9D	B-IN	90	90	W/B B INDOOR CONTROL VALUE
9E	R-OUT	80	80	W/B R OUTDOOR CONTROL VALUE
9F	B-OUT	65	65	W/B B OUTDOOR CONTROL VALUE
A6	WBTAR	84	84	W/B ADJUST R TARGET
A7	WBTAB	70	70	W/B ADJUST B TARGET:X-20>INPUT HALL=OUTDOOR
E6	MSEL	00	00	SG2=SG,PWR SA,FCM OF,SYN EX,DIS EN/CINEEN

MODE	OSD	DATA1	DATA2	NAME OF ADJUSTMENT
EC	HRGDL	10	10	PCK TO H1/2 DELAY ADJ CTL/H1 TO RG DELAY ADJ CTL
ED	SHP.D	00	00	H1 TO SHP DELAY ADJ CTL/H1 TO SHD DELAY ADJ CTL
EE	ADDL	00	00	H1 TO SPO DELAY ADJ CTL/H1 TO FWCK DELAY ADJ CTL
00		00	00	
01		A9	A9	HALL GAIN CONTROL
06		00	00	AGC CONTROL 2
08		00	00	IRIS CONTROL 2
09		75	75	HALL REFERENCE CONTROL
0A		FF	FF	LENS ADJUST
0B		66	66	V BK NOIS TH,V BK NOISE G,H BK MOIS TH,H BK NOISE G
0E		22	22	APERTURE SLICE CONTROL/APERTURE CLIP
0F		D0	D0	Y H.LIGHT REF VALUE FOR COLOR SUPRESS
10		10	10	EDGE REFERENCE VALUE FOR COLOR WUPRESS
11		02	02	Y SIGNAL GAMMA COEFF. 1
12		07	07	Y SIGNAL GAMMA COEFF. 2
13		10	10	Y SIGNAL GAMMA COEFF. 3
14		30	30	Y SIGNAL GAMMA COEFF. 4
15		55	55	Y SIGNAL GAMMA COEFF. 5
16		85	85	Y SIGNAL GAMMA COEFF. 6
17		C8	C8	Y SIGNAL GAMMA COEFF. 7
18		DB	DB	Y SIGNAL GAMMA COEFF. 8
19		08	08	C SUPR COEFF. DELAY
1A		11	11	Cr/CB/Y SIG,CLPF T,Y S SE,CrMX S,cBMX S
1B		42	42	COLOR MATRIX COEFF. OF Cr SIGNAL
1C		66	66	COLOR MATRIX COEFF. OF Cb SIGNAL
1F		24	24	COLOR W/B COEFF. OF G SIGNAL
20		0C	0C	COLOR DARK SLICE COEFF. OF Cr SIGNAL
21		F4	F4	COLOR DARK SLICE COEFF. OF Cb SIGNAL
22		FB	FB	COLOR DARK SLICE COEFF. OF G SIGNAL
23		02	02	CHROMA GAMMA BENDING POINT1
24		07	07	CHROMA GAMMA BENDING POINT2
25		20	20	CHROMA GAMMA BENDING POINT3
26		30	30	CHROMA GAMMA BENDING POINT4
27		55	55	CHROMA GAMMA BENDING POINT5
28		85	85	CHROMA GAMMA BENDING POINT6
29		C8	C8	CHROMA GAMMA BENDING POINT7
2A		DB	DB	CHROMA GAMMA BENDING POINT8
2B		59	59	Cr(R-G) SIGNAL POSITIVE GAIN
2C		59	59	Cr(R-G) SIGNAL NEGATIVE GAIN
2D		F2	F2	Cr(B-G) SIGNAL POSITIVE GAIN
2E		F2	F2	Cr(B-G) SIGNAL NEGATIVE GAIN
2F		D9	D9	Cb(R-G) SIGNAL POSITIVE GAIN
30		D9	D9	Cb(R-G) SIGNAL NEGATIVE GAIN
31		72	72	Cb(B-G) SIGNAL POSITIVE GAIN
32		72	72	Cb(B-G) SIGNAL NEGATIVE GAIN
3A		40	40	ODM HPF COEFF. A11 FOR AF2
3B		00	00	ODM HPF COEFF. A21 FOR AF2
3C		00	00	ODM HPF COEFF. A22 FOR AF2
3D		7F	7F	ODM HPF COEFF. B10 FOR AF2
3E		00	00	ODM HPF COEFF. B20 FOR AF2
3F		7F	7F	ODM HPF COEFF. B21 FOR AF2
40		00	00	ODM COMMAND
41		00	00	ODM HPF COEFF. A11 FOR AF1

MODE	OSD	DATA1	DATA2	NAME OF ADJUSTMENT
42		00	00	ODM HPF COEFF. A21 FOR AF1
43		00	00	ODM HPF COEFF. A22 FOR AF1
44		60	60	ODM HPF COEFF. B10 FOR AF1
45		C0	C0	ODM HPF COEFF. B20 FOR AF1
46		7F	7F	ODM HPF COEFF. B21 FOR AF1
47		44	44	ODM H START POINT OF WINDOW1 FOR AF
48		B3	B3	ODM H END POINT OF WINDOW1 FOR AF
49		28	28	ODM V START POINT OF WINDOW1 FOR AF
4A		6B	6B	ODM V END POINT OF WINDOW1 FOR AF
4B		E0	E0	ODM AE MODE THRESHOLD VALUE
4C		FF	FF	ODM Y SIG UPPER THRESHOLD VALUE OF AE MODE
4D		00	00	ODM Y SIG LOWER THRESHOLD VALUE OF AE MODE
4E		3F	3F	ODM Y SIG UPPER THRESHOLD VALUE OF AE MODE
4F		00	00	ODM Y SIG LOWER THRESHOLD VALUE OF AE MODE
50		1F	1F	R-Y THRESHOLD VAL OF AWB
51		1F	1F	B-Y THRESHOLD VAL OF AWB
52		3F	3F	(R-Y)+(B-Y) SIG THRE VAL OF AWB
53		0E	0E	H START POINT OF WINDOW2 FOR AF
54		EF	EF	H END POINT OF WINDOW2 FOR AF
55		02	02	V START POINT OF WINDOW2 FOR AF
56		8A	8A	V END POINT OF WINDOW2 FOR AF
5F		35	35	H START POINT OF WINDOW FOR COLOR AUTO ADJ
60		50	50	H STOP POINT OF WINDOW FOR COLOR AUTO ADJ
61		40	40	LENS ADJ TARGET(07H-A¢°07H)
62		A0	A0	INITIAL VALUE OF COLOR GAIN ADJ
63		3A	3A	V START POINT OF WINDOW FOR COLOR AUTO ADJ
64		4B	4B	V STOP POINT OF WINDOW FOR COLOR AUTO ADJ
65		18	18	ZOOM VR THR:#D6+/- #65=ZOOM VR STOP RANGE
66		21	21	V-SUBWINDOW WIDTH OF AE/AWB WINDOW
67		1C	1C	H-SUBWINDOW WIDTH OF AE/AWB WINDOW
68		00	00	
69		00	00	
6A		00	00	
6B		00	00	ODM PEAK HOLD OF AF1 OF WINDOW1
6C		00	00	ODM PEAK HOLD OF AF2 OF WINDOW1
6D		00	00	ODM PEAK HOLD OF AF1 OF WINDOW2
6E		00	00	ODM PEAK HOLD OF AF2 OF WINDOW2
6F		3B	3B	V-SUBWIN. START POINT OF AE/AWB
70		0E	0E	H-SUBWIN. START POINT OF AE/AWB
71		02	02	Ne/Po,ART EFFECT,Y SIG DELAY CTL SELECTION
72		90	90	Y SIGNAL GAIN
76		2A	2A	LUMINANCE BLANK LEVEL
7A		3C	3C	DELAY CONTROL SELECTION
7B		00	00	TEST COMMAD
7C		00	00	TEST MODE COLOR SUPRESS COEFF.
7F		00	00	BURST FLAG DELAY
80		00	00	D/ZOOM AE TARGET CONTROL
81		80	80	HALL REF START VAL FOR HALL AUTO ADJ
82		80	80	HALL GAIN START VAL FOR HALL AUTO ADJ
83		40	40	FILTER1 DATA(40H:X0.5,80H:X1,FFH:X2)
84		B8	B8	AGC AUTO ADJ. MAX START VALUE
85		40	40	R INDOOR START VALUE OF W/B AUTO ADJ
86		98	98	B INDOOR START VALUE OF W/B AUTO ADJ
87		80	80	R OUTDOOR START VALUE OF W/B AUTO ADJ
88		68	68	B OUTDOOR START VALUE OF W/B AUTO ADJ
8A		18	18	AGC AUTO ADJUST MAX TARGET
8B		1B	1B	HALL MIN VALUE
8C		BB	BB	HALL MAX VALUE
8E		10	10	OUTDOOR R CTL DOWN LIMIT RANGE
8F		04	04	OUTDOOR B CTL UP LIMIT RANGE
94		A0	A0	BLC ON AE TARGET

MODE	OSD	DATA1	DATA2	NAME OF ADJUSTMENT
95		20	20	HIGH LUMINANCE HALL TARGET
96		00	00	W/B AUTO ADJ
99		40	40	NOT USED
9A		20	20	P.AE(SPOTLIGHT MODE) IRIS REF +/- VALUE
9B		00	00	NOT USED
A0		88	88	W/B R OUTDOOR UP MARGIN
A1		83	83	W/B R INDOOR DOWN MARGIN
A2		06	06	W/B B INDOOR UP MARGIN
A3		93	93	W/B B OUTDOOR DOWN MARGIN
A4		00	00	W/B INITIAL R OUTDOOR START VALUE
A5		88	88	W/B INITIAL B OUTDOOR START VALUE
A8		80	80	W/B TABLE MODE
A9		02	02	W/B SD/3+AEAVR-MAXDETE
AA		55	55	WB CONTROL BOUNDARY
AB		90	90	W/B CTL STOP HALL OF MACRO AREA
AC		40	40	W/B OUTDOOR STOP HALL
AD		00	00	R,B CTL SPEED UP/DOWN
AE		70	70	W/B RESTART HALL<20H, >40H
AF		10	10	W/B P.AE MODE STOP HALL
B0		10	10	W/B STABLE THRESHOLD
B1		CE	CE	LENS ADJ. FOCUS RESET POSITION L
B2		11	11	LENS ADJ. FOCUS RESET POSITION H
B3		40	40	LENS ZOOM RESET POSITION L
B4		12	12	LENS ZOOM RESET POSITION H
B5		83	83	LENS ADJ. ZOOM RESET DIFFERENCE
B6		37	37	WIDE MODE V.ZOOM RATIO
B7		90	90	AREA1 FILTER1 NOISE LEVEL L
B8		00	00	AREA1 FILTER1 NOISE LEVEL H
B9		D0	D0	AREA2 FILTER1 NOISE LEVEL L
BA		02	02	AREA2 FILTER1 NOISE LEVEL H
BB		70	70	AREA1 FILTER2 NOISE LEVEL L
BC		00	00	AREA1 FILTER2 NOISE LEVEL H
BD		20	20	AREA2 FILTER2 NOISE LEVEL L
BE		02	02	AREA2 FILTER2 NOISE LEVEL H
BF		20	20	IRIS MINIMUM CONTROL:#E0 ADJ RESULT
C0		D0	D0	IRIS MAXIMUM CONTROL:#E0 ADJ RESULT
C1		00	00	V-SUB EVEN CONTROL
C2		77	77	V/H ADJ EVEN/ODD CONTROL
C3		75	75	FOCUS RETURN LOW BYTE
C4		15	15	FOCUS RETURN HIGH BYTE
C5		A0	A0	ZOOM RETURN LOW BYTE
C6		12	12	ZOOM RETURN HIGH BYTE
C7		4E	4E	LENS MARGIN CHECK : PCB
C8		5F	5F	LENS MARGIN CHECK : MAIN
C9		78	78	R VALUE OF YELLOW MODE:#C9=#20(CDSR)
CA		00	00	B VALUE OF YELLOW MODE:#CA=#21(CDSB)
CB		60	60	G VALUE OF YELLOW MODE:#CB=#22(CDSG)
CC		08	08	HALL ADJUST MIN VALUE
CD		64	64	HALL ADJUST CENTER VALUE
CE		C0	C0	HALL ADJUST MAX VALUE
CF		FF	FF	NOT USED
D0		FF	FF	LENS AUTO CHECK
D1		FF	FF	HALL AUTO CHECK(#DB:CHECK MARGIN)
D2		FF	FF	AGC AUTO CHECK
D3		FF	FF	LENS CHECK OF PCB LINE
D4		FF	FF	EIS CHECK(H)
D5		FF	FF	EIS CHECK(L)
D7		FF	FF	ZOOM,FOCUS MOVE
D8		FF	FF	MAIN LINE LENS CHECK
D9		FF	FF	COLOR GAIN AUTO ADJUST
DA		18	18	SETUP MINUS VALUE(#E5):#02(18H)-#DA=#02

MODE	OSD	DATA1	DATA2	NAME OF ADJUSTMENT
DB		08	08	HALL CHECK(#D1) THRESHOULD
DC		82	82	COLOR ADJUST(#D1) TARGET VALUE
DD		FF	FF	
DE		FF	FF	
DF		FF	FF	
E1		FF	FF	AGC AUTO ADJUST
E5		FF	FF	SETUP AUTO ADJUST(#02(18H)-#DA -> #02)
E7		00	00	INVERSE NUMBER OF VERTICAL ZOOM MAGNIFYING RATIO
E8		0C	0C	CCD VERTICAL START POINT BY ZOOM:INTEGER LINES
E9		00	00	CCD VERTICAL START POINT BY ZOOM:SUB-PIXEL
EA		83	83	SHUTTER MODE,LOW SPEED CONTROL,Hi-SHUTT SPD
EB		FF	FF	HIGH SHUTTER SPEED CONTROL
EF		00	00	FOR 680K CCD RG DELAY
F0		80	80	D/Z,EIS,EFFECT,VBLK DELAY AD,LBLK DELAY AD,SCKIV
F1		00	00	H ZOOM STEP.(0~192:X1~X4)
F2		00	00	V ZOOM STEP.(256~64:X1~X4)
F3		00	00	H START READ ADDRESS.(16BIT) H
F4		01	01	H START READ ADDRESS.(16BIT) L
F5		00	00	H ZOOM START SUB PIXEL(0~255)
F6		00	00	V ZOOM START SUB PIXEL(0~255)
F7		00	00	V ZOOM START SUB PIXEL(0~255)
F8		00	00	DVC DELAY
F9		00	00	DSE SELECT
FA		60	60	R VALUE OF SEPIA MODE:#FA=#20
FB		00	00	B VALUE OF SEPIA MODE:#FB=#21
FC		18	18	G VALUE OF SEPIA MODE:#FC=#22
FD		94	94	NEGA MODE TARGET:#75(EWC)=#8F,#71:00 -> 40
FE		98	98	NOISE SLICE START AGC
FF		FF	FF	

Note : On table you see the "XX XX" for DATA 1/DATA 2 "XX XX" means arbitrary value.

<Example of the TV screen>

E2	HALLA	XX	XX
		Data in memory	Data to be adjusted

Initial data by models.

MODE	OSD	NAME OF ADJUSTMENT	DATA1	DATA2	MODELS
7A		DELAY CONTROL SELECTION	3C	3C	VP-A12, VP-A15
			3F	3F	VP-A17, VP-A18
7D		XCK CT,OSIMSE,MMSEL,HSEL,VSEL,SCK CT,UVCK	06	06	VP-A12, VP-A15
			00	00	VP-A17, VP-A18
7E		SYNC C,EXT DA,C4:2:2,WIDE,LPF SE,PAL,Hi8,D/Z	05	05	VP-A12, VP-A15
			07	07	VP-A17, VP-A18
E8		CCD VERTICAL START POINT BY ZOOM:INTERGER LINES	0C	0C	VP-A12, VP-A15
			1B	1B	VP-A17, VP-A18
F0		DZ,EIS,EFFECT,VBLK DELAY AD,LBLK DELAY AD,SCKIV	80	80	VP-A12, VP-A15
			CA	CA	VP-A17, VP-A18
F1		H ZOOM STEP.(0~192:X1~X4)	00	00	VP-A12, VP-A15
			2C	2C	VP-A17, VP-A18
F4		HORIZONTAL START READ ADDRESS(16BIT) L	01	01	VP-A12, VP-A15
			15	15	VP-A17, VP-A18

5-2-2 Camera System Adjustment

Note : From now on, the structure of every adjustment is as follows.

Step	Adjustment Item
1) Mode and input signal/ alignment tape 2) Test point and ADJ. part 3) And after Result and Remarks	

Note : The on-screen display information.
"XX XX" means arbitrary value.
It can be different number depend on the conditions.

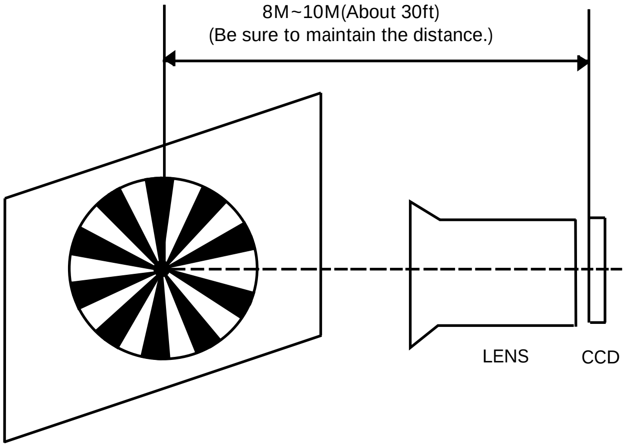
E2	HALLA	XX	XX

1. Focus to zoom tracking

Note : To maintain proper focus throughout the zoom range, the focus lens position must be changed as the zoom lens is moved.
During this adjustment the microprocessor will measure the focus positioning requirements at the wide and telephoto position of the zoom lens.

1) Camera "E-E".
2) Focus chart (Attached on the last page of this manual) and EVR.
3) Aim the camera at the focus chart placed about 30ft. (8 to 10 meters) away and perpendicular to the center of the lens.
The chart should be placed on the flat, gray or white wall.
4) Connect monitor TV jack to video output jack.
5) Press the "STILL (MODE UP)" and "DISPLAY (MODE DOWN)" button, so that the OSD start is "E4 LENSA XX XX".
6) Focus adjustment (There are 2 ways to do the adjustment.)

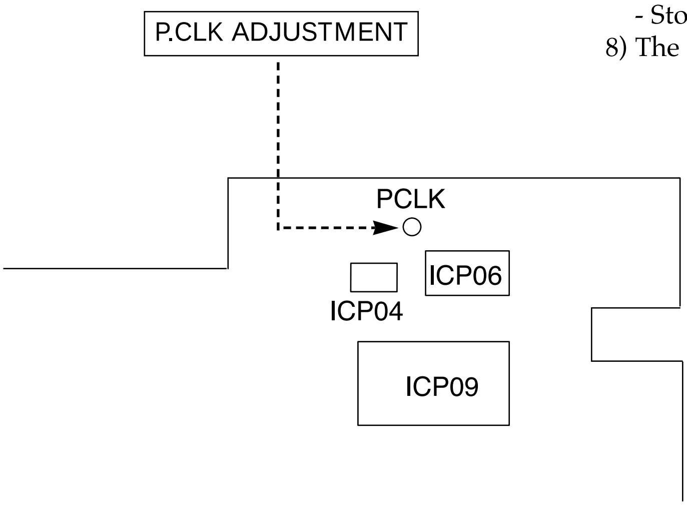
a. Full auto : Press "START/STOP (CONFIRM)" button for full auto adjustment.
The camera will move both zoom and focus lens. The adjustment is finished when the O.K! message appears on the TV screen.



b. Manual : Camera lens will be moved to all positions to set maximum focus setting.
b-1. Press the "TELE" button to instruct the microprocessor to adjust the focus lens for optimum focus.
b-2. Press the "START/STOP (CONFIRM)" button. The zoom lens should move to the tele zoom position.
b-3. After the zoom lens reaches the tele zoom position, repeat step b-1.
b-4. Press the "START/STOP (CONFIRM)" button. The zoom lens should move the the middle zoom position.
b-5. After the zoom lens reaches the middle zoom position, if focus state is not the optimum focus state, repeat step b-1, b-2, b-3 and b-4.
b-7. Press "START/STOP (CONFIRM)" button. The zoom lens should move to the wide zoom position, try to step b-1.
b-8. Press "START/STOP (CONFIRM)" button to instruct the microprocessor to write the focus lens positon data to the EEPROM.
The lens will move through the zoom range and the picture will fade out and then back in.
The OSD will display "OK!".

2. P. CLK Adjustment

1) "Camera", no signal input.
2) P.CLK and EVR.
3) Connent a frequency counter to P.CLK.
4) Press the "STILL (MODE UP)/DISPLAY (MODE DOWN)" button so that the OSD state is "04 P.CLK XX XX".
5) Adjust the "FF(DATA UP)/REW(DATA DOWN)" button so that frequency is
VP-A12/A15 (9.453125MHz ± 50Hz).
VP-A17/A18 (14.18750MHz ± 50Hz).



Main PCB (component side)

3. Auto Setup

1) Camera "E-E", 3100°K gray-scale chart.
2) Video(output) jack and EVR.
3) Connect monitor TV to video(output) jack.
4) Press the "STILL (MODE UP)/DISPLAY (MODE DOWN)" button so that the OSD state is "E5 XX XX".
5) Aim the camera at a gray-scale chart evenly illuminated at 1500 to 2000 lx. (Must be 40us.)
6) Press "START/STOP (CONFIRM)" button.
7) Then, the microprocessor will work ;
   - IRIS clocse, setup level, egual to 40mV
   - Store the data to mode 02.
8) The OSD shows "OK!".

4. Zoom VR Center

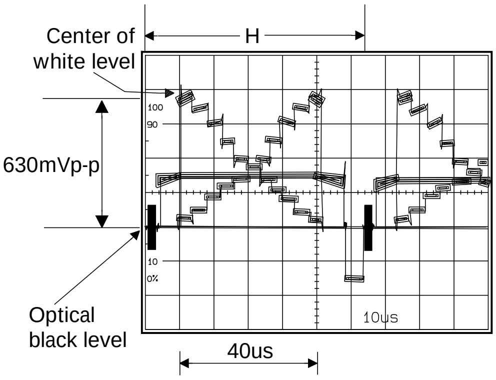
1) Camera "E-E", 3100°K gray-scale chart.
2) Video(output) jack and EVR.
3) Connect monitor TV to video(output) jack.
4) Press the "STILL (MODE UP)/DISPLAY (MODE DOWN)" button so that the OSD state is "D6 Z, CHK XX XX".
5) Aim the camera at a gray-scale chart evenly illuminated at 1500 to 2000 lx. (Must be 40us.)
6) Press "START/STOP (CONFIRM)" button.
7) Then, the microprocessor will work ;
   - Find the zoom VR center position.
   - Store the data to mode D6.

5. Auto hall

1) Camera "E-E", 3100°K gray-scale chart.
2) Video(output) jack and EVR.
3) Connect monitor TV to video(output) jack.
4) Press the "STILL (MODE UP)/DISPLAY (MODE DOWN)" button so that the OSD state is "E2 HALLA XX XX".
5) Aim the camera at a gray-scale chart evenly illuminated at 1500 to 2000 lx. (Must be 40us.)
6) Press "START/STOP (CONFIRM)" button.
7) Then, the microprocessor will work ;
   - IRIS open, HALL maximum value found,
   - IRIS closed, HALL minimum value found,
   - IRIS open, HALL maximum value found,
   - Store the data to mode 09 and mode 01.

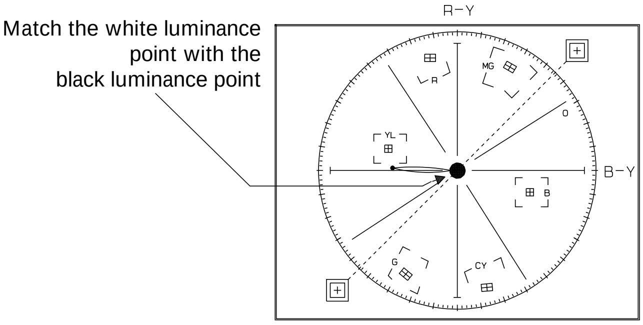
6. Auto IRIS

1) Camera “E-E”, 3100°K gray-scale chart.
2) Video(output) jack and EVR.
3) Connect video(output) jack to waveform monitor input jack and monitor TV jack respectively.
4) Press the “STILL (MODE UP)/DISPLAY (MODE DOWN)” button so that the OSD state is “E0 IRISA XX XX”.
5) Aim the camera at a gray-scale chart evenly illuminated at 1500 to 2000 lx. (Must be 40us.)
6) Press the “START/STOP (CONFIRM)” button.
7) Thenthe micro process will work;
   - IRIS open, IRIS control minimum value found.
   - IRIS close, IRIS control maximum value found.
   - Store the data to mode BF and mode C0.
8) The OSD shows “O.K”.


Center of white level
H
100
90
630mVp-p
10
0%
Optical black level
10us
40us

8. Pre white balance (I)

1) Camera “E-E”, 3100°K gray-scale chart.
2) Video(output) jack and EVR.
3) Connect vectorscope input jack to video(output) jack.
4) Press the “STILL (MODE UP)/DISPLAY (MODE DOWN)” button so that the OSD state is “1D CWBR XX XX”.
5) Aim the camera at a color bar chart illuminated at 1500 to 2000 lx.
6) Adjust the “FF (DATA UP)/REW (DATA DOWN)” button so that the white vector moves to the B-Y axial on screen of the vectorscope.
7) The OSD shows “OK!”.

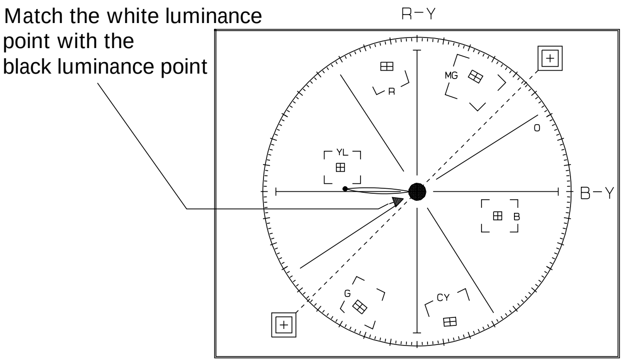

Match the white luminance point with the black luminance point
R-Y
R
MG
O
YL
B-Y
B
G
CY

7. Auto white balance

1) Camera “E-E”, 3100°K/5100°K gray-scale chart.
2) Video(output) jack and EVR.
4) Connect vectorscope input jack to video(output) jack.
3) Press the “STILL (MODE UP)/DISPLAY (MODE DOWN)” button so that the OSD state is “E3 WBA XX XX”.

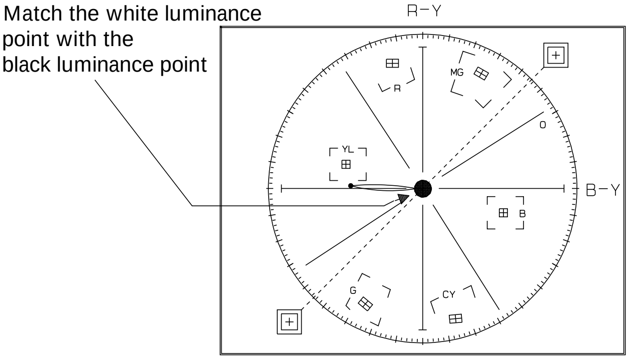
a. W/B Indoor
a-1. Aim the camera at a 3100°K gray-scale chart illuminated at 1500 to 2000 lx. (40us)
a-2. Press “START/STOP (CONFIRM)” button so that the white vector moves to the center on screen of the vectorscope.
a-3. The OSD shows “OK!”.

b. W/B Outdoor
b-1. Aim the camera at a 5100°K gray-scale chart illuminated at 1500 to 2000 lx. (40us)
b-2. Press “START/STOP (CONFIRM)” button so that the white vector moves to the center on screen of the vectorscope.
b-3. The OSD shows “OK!”.


Match the white luminance point with the black luminance point
R-Y
R
MG
O
YL
B-Y
B
G
CY

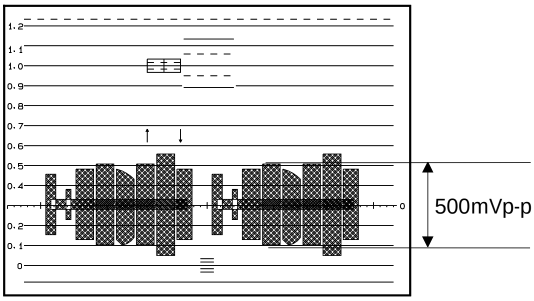
9. Pre white balance (II)

1) Camera “E-E”, 3100°K gray-scale chart.
2) Video(output) jack and EVR.
4) Connect vectorscope input jack to video(output) jack.
3) Press the “STILL (MODE UP)/DISPLAY (MODE DOWN)” button so that the OSD state is “1E CWBB XX XX”.
5) Aim the camera at a color bar chart illuminated at 1500 to 2000 lx.
6) Adjust the “FF (DATA UP)/REW (DATA DOWN)” button so that the white vector moves to the R-Y axial on screen of the vectorscope.
7) The OSD shows “OK!”.


Match the white luminance point with the black luminance point

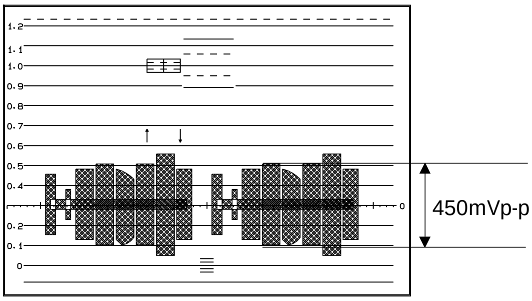
10. R-Y Positive Gain

1) Camera “E-E”, 3100°K color bar chart.
2) Video(output) jack and register of EEPROM.
3) Connect video(output) jack to waveform monitor input jack and monitor TV jack respectively.
4) Press the “STILL (MODE UP)/DISPLAY (MODE DOWN)” button so that the OSD state is “33 CRGP XX XX”.
5) Aim the camera at a color bar chart illuminated at 1500 to 2000 lx.
6) Adjust the “FF (DATA UP)/REW (DATA DOWN)” button so that the red level is 500mVp-p ± 50mV.
7) Be sure to press the “START/STOP (CONFIRM)” button to memorize setting.
8) The OSD shows “OK!”.



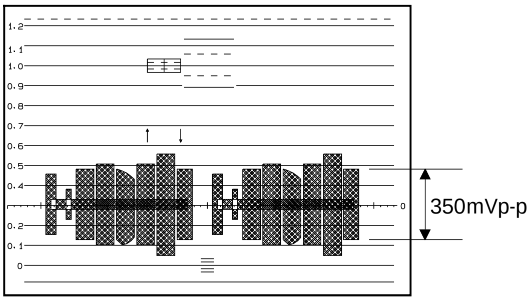
11. R-Y Negative Gain

1) Camera “E-E”, 3100°K color bar chart.
2) Video(output) jack and register of EEPROM.
3) Connect video(output) jack to waveform monitor input jack and monitor TV jack respectively.
4) Press the “STILL (MODE UP)/DISPLAY (MODE DOWN)” button so that the OSD state is “34 CRGN XX XX”.
5) Aim the camera at a color bar chart illuminated at 1500 to 2000 lx.
6) Adjust the “FF (DATA UP)/REW (DATA DOWN)” button so that the cyan level is 450mVp-p.
7) Be sure to press the “START/STOP (CONFIRM)” button to memorize setting.
8) The OSD shows “OK!”.



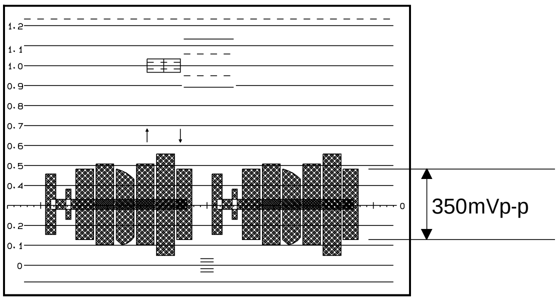
12. B-Y Positive Gain

1) Camera “E-E”, 3100°K color bar chart.
2) Video(output) jack and register of EEPROM.
3) Connect video(output) jack to waveform monitor input jack and monitor TV jack respectively.
4) Press the “STILL (MODE UP)/DISPLAY (MODE DOWN)” button so that the OSD state is “37 CBGP XX XX”.
5) Aim the camera at a color bar chart illuminated at 1500 to 2000 lx.
6) Adjust the “FF (DATA UP)/REW (DATA DOWN)” button so that the blue level is 350mVp-p ± 50mV.
7) Be sure to press the “START/STOP (CONFIRM)” button to memorize setting.
8) The OSD shows “OK!”.



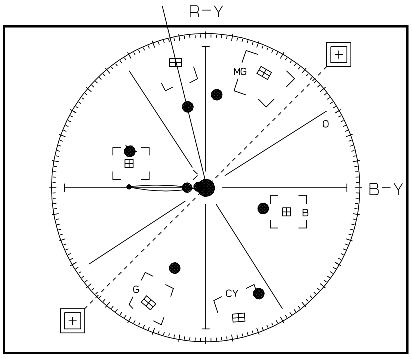
13. B-Y Negative Gain

1) Camera “E-E”, 3100°K color bar chart.
2) Video(output) jack and register of EEPROM.
3) Connect video(output) jack to waveform monitor input jack and monitor TV jack respectively.
4) Press the “STILL (MODE UP)/DISPLAY (MODE DOWN)” button so that the OSD state is “38 CBGN XX XX”.
5) Aim the camera at a color bar chart illuminated at 1500 to 2000 lx.
6) Adjust the “FF (DATA UP)/REW (DATA DOWN)” button so that the yellow level is 350mV.
7) Be sure to press the “START/STOP (CONFIRM)” button to memorize setting.
8) The OSD shows “OK!”.



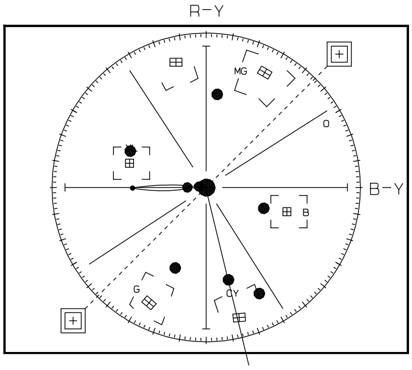
14. R-Y Positive Hue

1) Camera “E-E”, 3100°K color bar chart.
2) Video(output) jack and register of EEPROM.
3) Connect video(output) jack to vectorscope input jack and monitor TV jack respectively.
4) Press the “STILL (MODE UP)/DISPLAY (MODE DOWN)” button so that the OSD state is “79 CBHN XX XX”.
5) Aim the camera at a color bar chart illuminated at 1500 to 2000 lx.
6) Adjust the “FF (DATA UP)/REW (DATA DOWN)” button so that the red vector is 104.
7) Be sure to press the “START/STOP (CONFIRM)” button to memorize setting.
8) The OSD shows “OK!”.


RED VECTOR 104 DEG.

15. R-Y Negative Hue

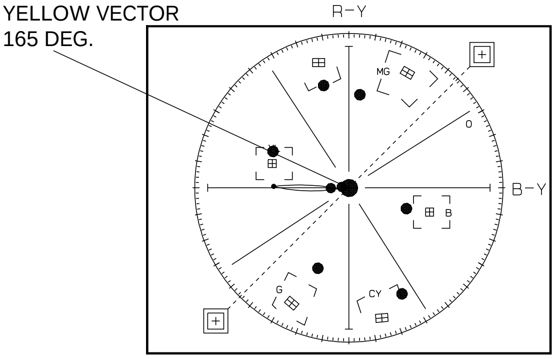
1) Camera “E-E”, 3100°K color bar chart.
2) Video(output) jack and register of EEPROM.
3) Connect video(output) jack to vectorscope input jack and monitor TV jack respectively.
4) Press the “STILL (MODE UP)/DISPLAY (MODE DOWN)” button so that the OSD state is “39 CHGR XX XX”.
5) Aim the camera at a color bar chart illuminated at 1500 to 2000 lx.
6) Adjust the “FF (DATA UP)/REW (DATA DOWN)” button so that the cyan vector is 284.
7) Be sure to press the “START/STOP (CONFIRM)” button to memorize setting.
8) The OSD shows “OK!”.



CYAN VECTOR 284 DEG.

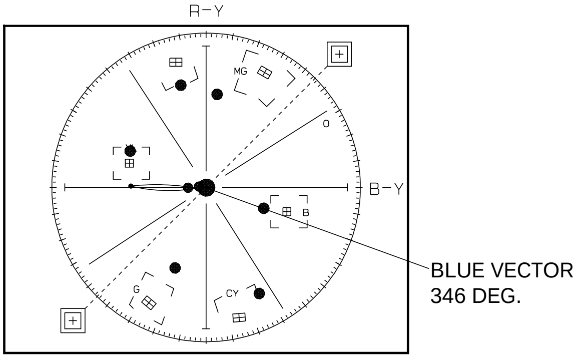
16. B-Y Negative Hue

1) Camera “E-E”, 3100°K color bar chart.
2) Video(output) jack and register of EEPROM.
3) Connect video(output) jack to vectorscope input jack and monitor TV jack respectively.
4) Press the “STILL (MODE UP)/DISPLAY (MODE DOWN)” button so that the OSD state is “35 CHYE XX XX”.
5) Aim the camera at a color bar chart illuminated at 1500 to 2000 lx.
6) Adjust the “FF (DATA UP)/REW (DATA DOWN)” button so that the yellow vector is 165.
7) Be sure to press the “START/STOP (CONFIRM)” button to memorize setting.
8) The OSD shows “OK!”.



17. B-Y Positive Hue

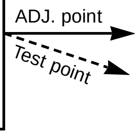
1) Camera “E-E”, 3100°K color bar chart.
2) Video(output) jack and register of EEPROM.
3) Connect video(output) jack to vectorscope input jack and monitor TV jack respectively.
4) Press the “STILL (MODE UP)/DISPLAY (MODE DOWN)” button so that the OSD state is “36 CHB XX XX”.
5) Aim the camera at a color bar chart illuminated at 1500 to 2000 lx.
6) Adjust the “FF (DATA UP)/REW (DATA DOWN)” button so that the blue vector is 346.
7) Be sure to press the “START/STOP (CONFIRM)” button to memorize setting.
8) The OSD shows “OK!”.



5-2-3 EVF Adjustment

Note : From this point forward, the structure of every adjustment is as follows.

Step	Adjustment Item
1. Mode and input signal/ alignment tape 2. Test point and ADJ. part 3. Result and Remarks	


ADJ. point
Test point

1. AFC

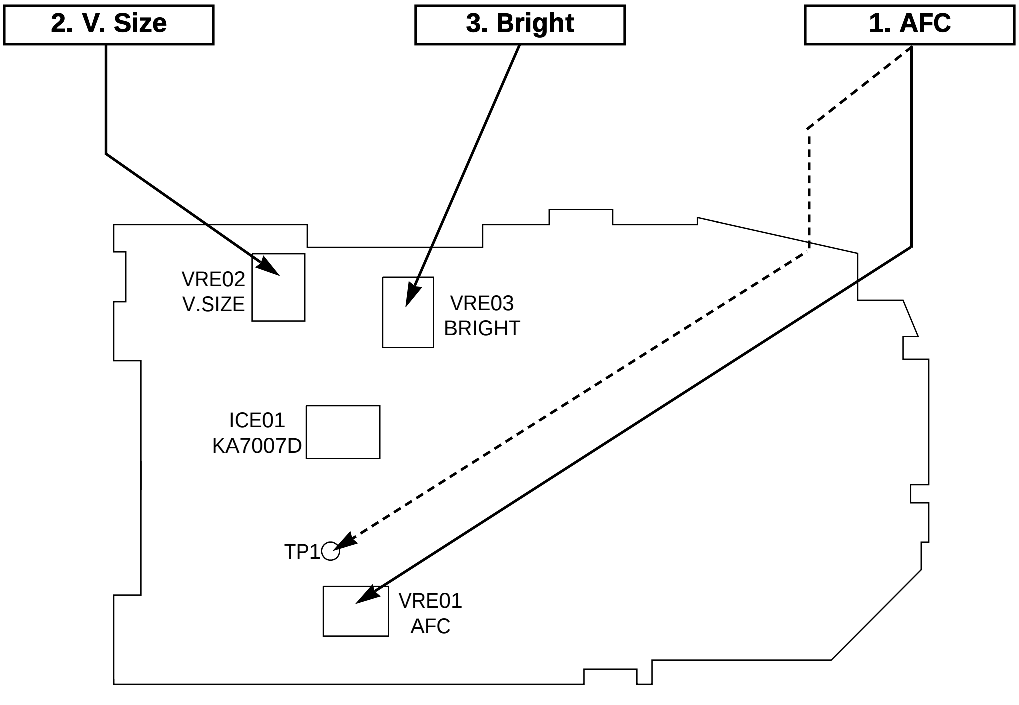
1) VCR "PB", Alignment tape (Lion pattern).
2) TP1 and VRE01.
3) Connect digital voltmeter probe to TP1.
4) Adjust VRE01 so that the voltage is DC 2.5V ± 0.1V.

2. V. Size

1) VCR "PB", Alignment tape (Lion pattern).
2) Viewfinder and VRE02.
3) Adjust VRE02 so that the counter circle on the lion pattern is perfect by round.

3. Bright

1) VCR "PB", Alignment tape (Lion pattern).
2) Viewfinder and VRE03.
3) Adjust the VRE03 so that the 3rd and 4th steps of the lion pattern can be distinguished.


2. V. Size
3. Bright
1. AFC
VRE02
V.SIZE
VRE03
BRIGHT
ICE01
KA7007D
TP1
VRE01
AFC

EVF PCB (Component side)

5-2-4 CVF Adjustment

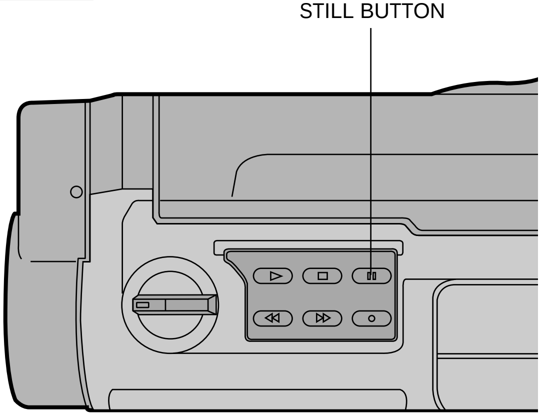
5-2-4 (a) PREPARATION

Note 1 : EVR built-in EEPROM is used for CVF adjustment.

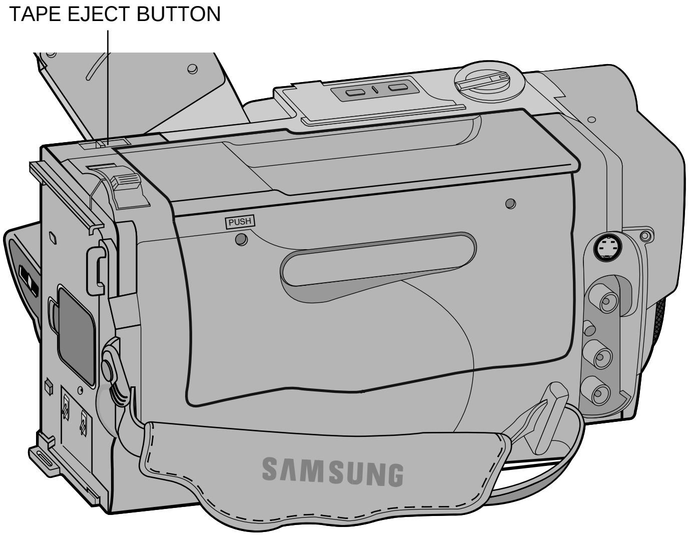
1. How to select the CVF adjust mode.

1) Connect the power source and then set the power conversion switch to VCR mode.
2) Press the "STILL" and push the "TAPE EJECT" button on the unit towards arrow for more than about 3 seconds to set to the adjust mode.

SET


STILL BUTTON

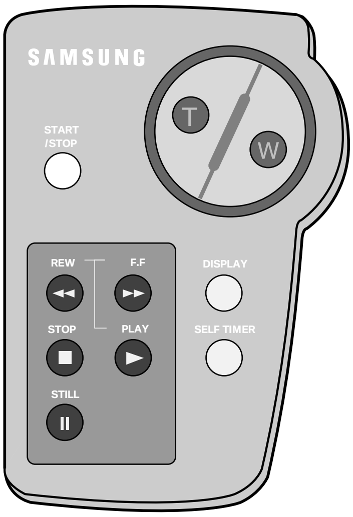
(TOP VIEW)


TAPE EJECT BUTTON
PUSH
SAMSUNG

(RIGHT VIEW)

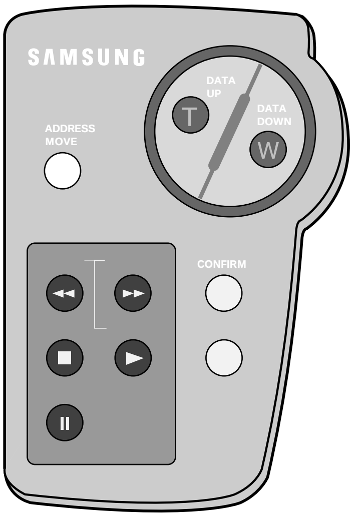
REMOTE CONTROL

Remote for camcorder
adjust for jig (Part No. : AD59-10379A).


SAMSUNG
T
W
START /STOP
REW
F.F
DISPLAY
STOP
PLAY
SELF TIMER
STILL

Reassignment is the adjustment mode.

Button placement when remote is used for service adjustment.


SAMSUNG
DATA UP
DATA DOWN
T
W
ADDRESS MOVE
CONFIRM

Note : In service adjustment mode, button names are different from those in customer CVF function control mode. EX) "DISPLAY" button is the same as "CONFIRM".

3) If CVF is set to the adjust mode, the OSD shows as follows.

```
      CVF
01    BRIGHT
      EPR:XX  EVR:XX
```

Address move → “START/STOP” button on the Remote control.
Data up/Data down → “TELE/WIDE” button on the Remote control.
Confirm → “DISPLAY” button on the Remote control.

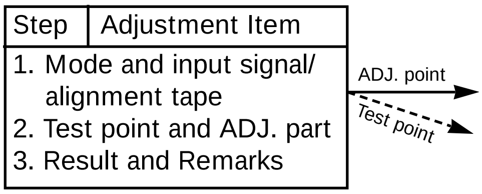
Ex) 01 → BRIGHT → EPR:XX → EVR:XX

ADDRESS	MODE	EPR	EVR	MEAN	REAMRK
01	BRIGHT	XX	XX	BRIGHT	ADJUST
02	COLOR	XX	XX	COLOR GAIN	ADJUST
03	HUE	XX	XX	HUE	ADJUST
04	R BRT	XX	XX	R SUB BRIGHT	ADJUST
05	B BRT	XX	XX	B SUB BRIGHT	ADJUST
06	RPD	XX	XX	PLL	ADJUST
07	GAMMA	75	75	GAMMA GAIN	FIXED
08	CONTRAST	55	55	CONTRAST	FIXED

4) After finishing the adjustment, reset the main power source (OFF-ON) to memorize the adjustment data in EEPROM.

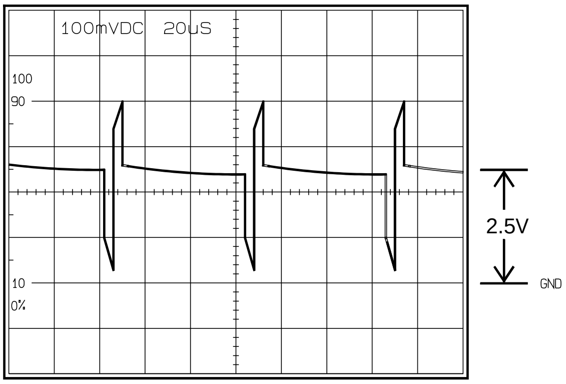
5-2-4 (b) ADJUSTMENT

Note : 1. From this point forward, the structure of every adjustment is as follows.
2. See page 5-16 for the location of test points and adjustments.


Step
Adjustment Item
1. Mode and input signal/ alignment tape
2. Test point and ADJ. part
3. Result and Remarks
ADJ. point
Test point

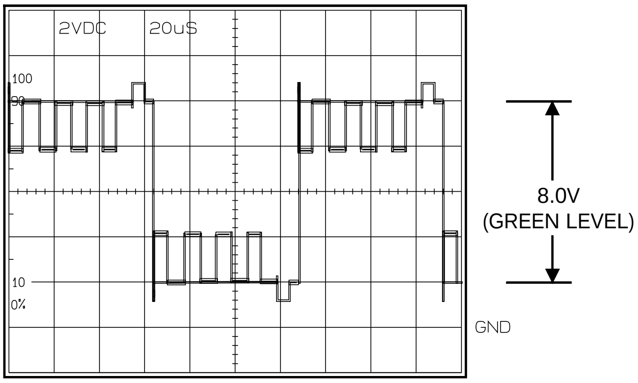
1. RPD

1) VCR "PB", Color bar (SP).
2) RPD and EVR.
3) Connect digital voltmeter probe to RPD.
4) Press the "START/STOP (MODE UP)" button so that the OSD state is "06 RPD EPR:XX EVR:XX".
5) Adjust the "TELE (DATA UP)/WIDE (DATA DOWN)" button so that RPD level is 2.6 ± 0.1V DC.
6) Be sure to press the "DISPLAY(CONFIRM)" button to memorize setting.
7) The OSD shows "CONFIRM !".



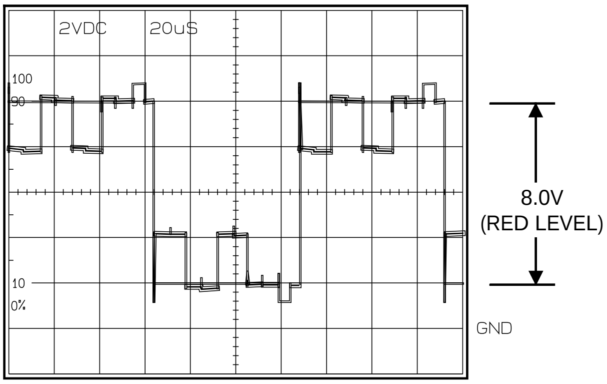
2. Brightness

1) VCR "PB", Color bar (SP).
2) G-OUT and EVR.
3) Connect an oscilloscope probe to G-OUT.
4) Press the "START/STOP (MODE UP)" button so that the OSD state is "01 BRIGHT EPR:XX EVR:XX".
5) Adjust the "TELE (DATA UP)/WIDE (DATA DOWN)" button so that bright level is 8.0Vp-p.
6) Be sure to press the "DISPLAY(CONFIRM)" button to memorize setting.
7) The OSD shows "CONFIRM !".



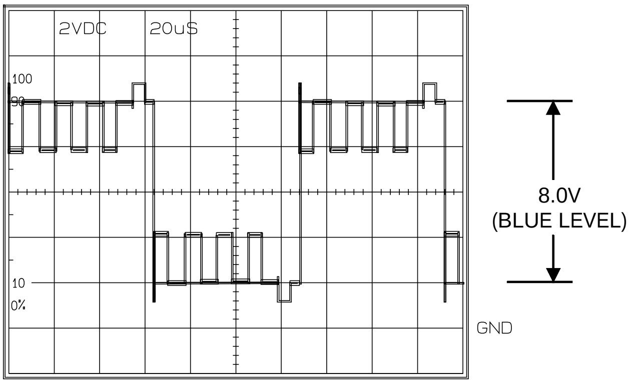
3. R-Sub Brighness

1) VCR "PB", Color bar (SP).
2) R-OUT and EVR.
3) Connect an oscilloscope probe to R-OUT.
4) Press the "START/STOP (MODE UP)" button so that the OSD state is "04 R BRT EPR:XX EVR:XX".
5) Adjust the "TELE (DATA UP)/WIDE (DATA DOWN)" button so that R-OUT level is 8.0Vp-p.
6) Be sure to press the "DISPLAY(CONFIRM)" button to memorize setting.
7) The OSD shows "CONFIRM !".



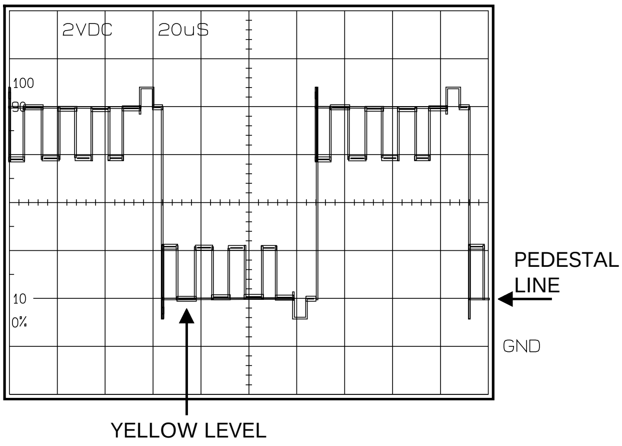
4. B-Sub Brightness

1) VCR “PB”, Color bar (SP).
2) B-OUT and EVR.
3) Connect an oscilloscope probe to B-OUT.
4) Press the “START/STOP (MODE UP)” button so that the OSD state is “05 B BRT EPR:XX EVR:XX”.
5) Adjust the “TELE (DATA UP)/WIDE (DATA DOWN)” button so that ROUT level is 8.0Vp-p.
6) Be sure to press the “DISPLAY(CONFIRM)” button to memorize setting.
7) The OSD shows “CONFIRM !”.



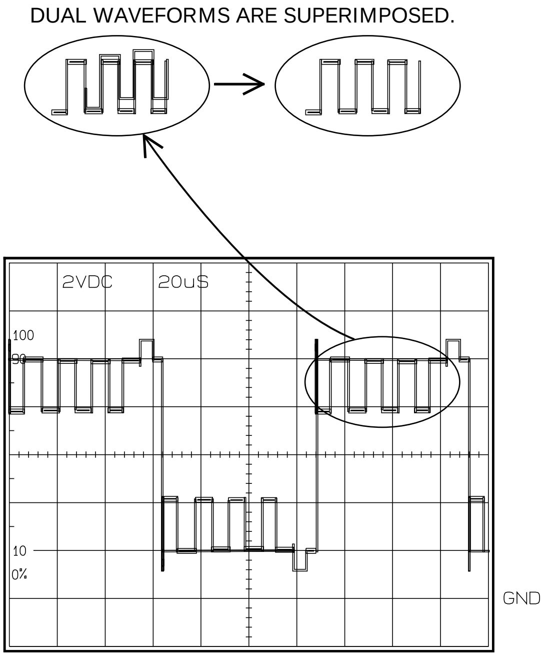
5. Color

1) VCR “PB”, Color bar (SP).
2) B-OUT and EVR.
3) Connect an oscilloscope probe to B-OUT.
4) Press the “START/STOP (MODE UP)” button so that the OSD state is “02 COLOR EPR:XX EVR:XX”.
5) Adjust the “TELE (DATA UP)/WIDE (DATA DOWN)” button so that the yellow level is equal to the pedestal line.
6) Be sure to press the “DISPLAY(CONFIRM)” button to memorize setting.
7) The OSD shows “CONFIRM !”.



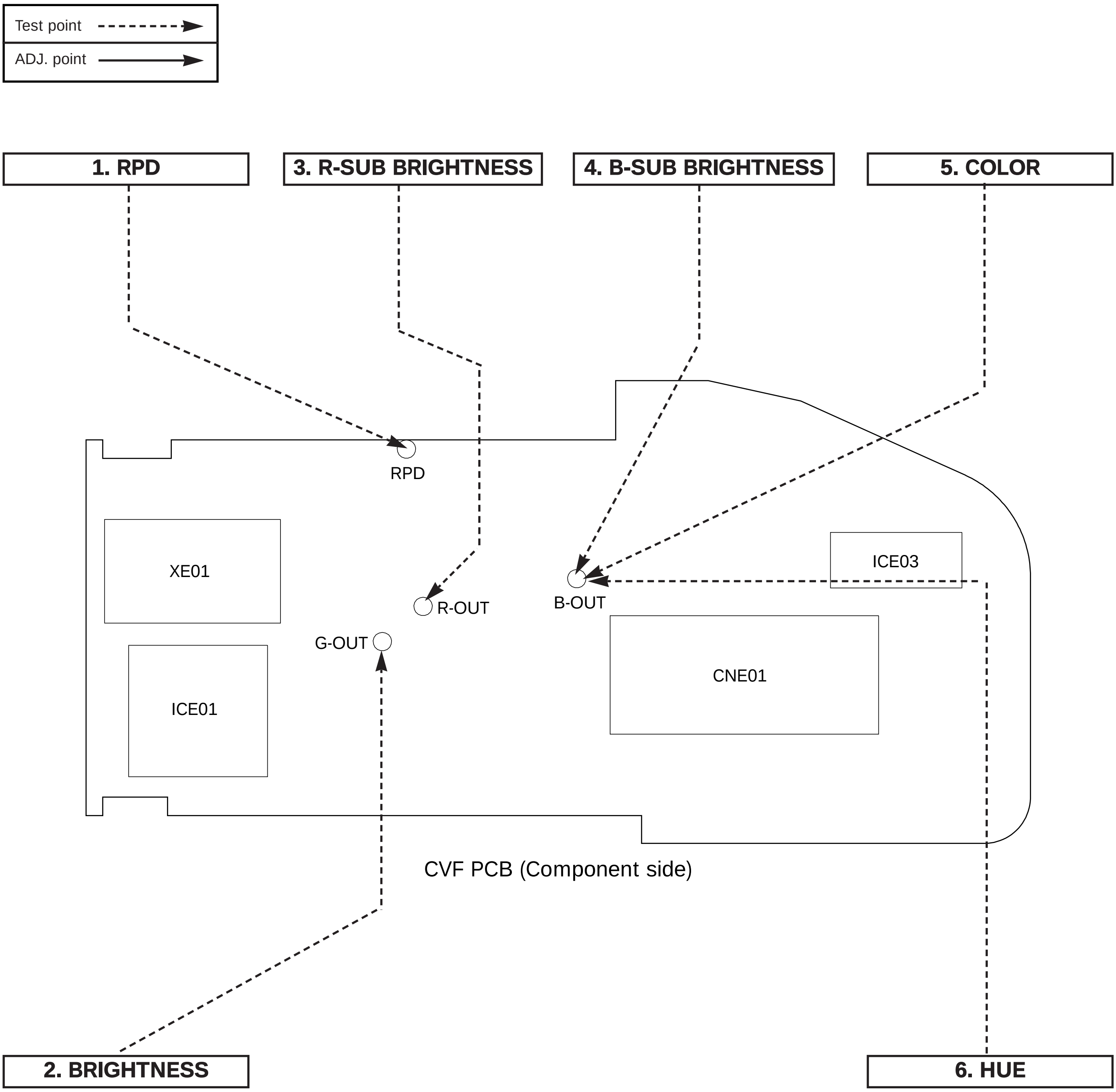
6. HUE

1) VCR “PB”, Color bar (SP).
2) B-OUT and EVR.
3) Connect an oscilloscope probe to B-OUT.
4) Press the “START/STOP (MODE UP)” button so that the OSD state is “03 HUE EPRP:XX EVR:XX”.
5) Adjust the “TELE (DATA UP)/WIDE (DATA DOWN)” button so that the dual waveforms are superimposed.
6) Be sure to press the “DISPLAY(CONFIRM)” button to memorize setting.
7) The OSD shows “CONFIRM !”.



◆ Test point and adjustment points :

NO	ADDRESS	Adjustment name	Test point	Adjustment point	Spec.
1	06	RPD	RPD	EVR	2.6 ± 0.1V DC
2	01	BRIGHTNESS	G-OUT	EVR	8.0Vp-p
3	04	R-SUB BRIGHTNESS	R-OUT	EVR	8.0Vp-p
4	05	B-SUB BRIGHTNESS	B-OUT	EVR	8.0Vp-p
5	02	COLOR	B-OUT	EVR	-
6	03	HUE	B-OUT	EVR	-
7	07	GAMMA	-	EVR Data Fixed	75
8	08	CONTRAST	-	EVR Data Fixed	55


Test point
ADJ. point
1. RPD
3. R-SUB BRIGHTNESS
4. B-SUB BRIGHTNESS
5. COLOR
RPD
XE01
ICE03
R-OUT
B-OUT
G-OUT
CNE01
ICE01
2. BRIGHTNESS
6. HUE

CVF PCB (Component side)

5-3 VCR Section Adjustment

5-3-1 Preparations

1. Equipment :

1) Monitor TV.
2) Dual trace oscilloscope of over 20MHz band, incorporates delay mode.
   (Use 10 : 1 probe unless otherwise specified.)
3) Frequency counter
4) Pattern generator with video output terminal.
5) Digital voltmeter.
6) DC power supply.
7) Alignment tape (Color bar : SP)

2. Composition of VCR PCBoards

1) Main PCB (system control/servo, video, camera)
2) Audio PCB
3) DC/DC converter PCB
4) A/V jack ass'y
5) Function-DSE PCB
6) Function-VCR PCB
7) Function-BLC PCB
8) Function-EAP PCB

3. Set-up during adjustment
   Since the video output signal obtained from the pattern generator is used as the adjusting signal for the VCR block, it is necessary that this video output signal be within the required specifications. Connect an oscilloscope to video input jack and make sure that the amplitude of the video SYNC signal is approximately 0.3V, that the video block amplitude is approximately 0.7V, that the burst signal amplitudeis approximately 0.3V with fiat characterics, and the signal level ratio between the burst signal and "Red" signal is 0.30 : 0.66.
   The video signal (color bars) used for VCR block electrical adjustment are shown in figure 1.

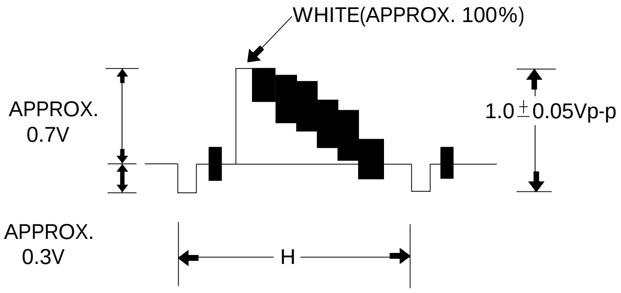


Fig. 1 Color bar signal pattern generator

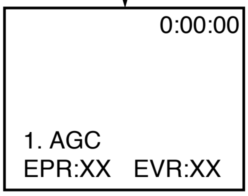
4. How to get into srvice "**ADJUST**" mode

STEP 1

1. Connect the power source (battery/DC cable).
2. Set the knob-power of the camcorder to VCR position.
3. Press the "TAPE EJECT" button to eject mode.

STEP 2

1. Press and hold " ■ (STOP)" button on camcorder and "WIDE" button on remote control at the same time for more than 5 seconds.
2. If OSD Shows like the figure below, VCR adjustment mode has been successfully activated.
3. Insert tape into housing assy and then perform the adjustments.

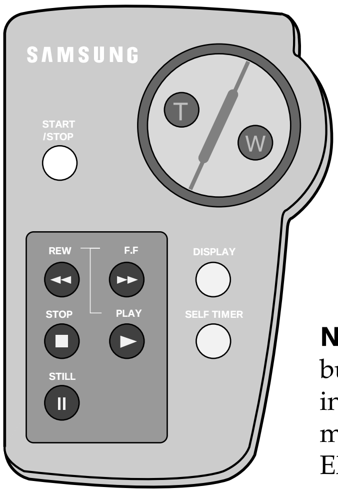


0:00:00

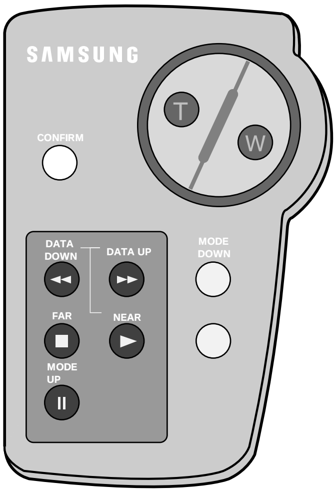
1. AGC
EPR:XX EVR:XX

5. The location of function button.

Remote for camcorder
adjust for jig (Part No. : AD59-10379A).


SAMSUNG
T
W
START /STOP
REW
F.F
DISPLAY
STOP
PLAY
SELF TIMER
STILL

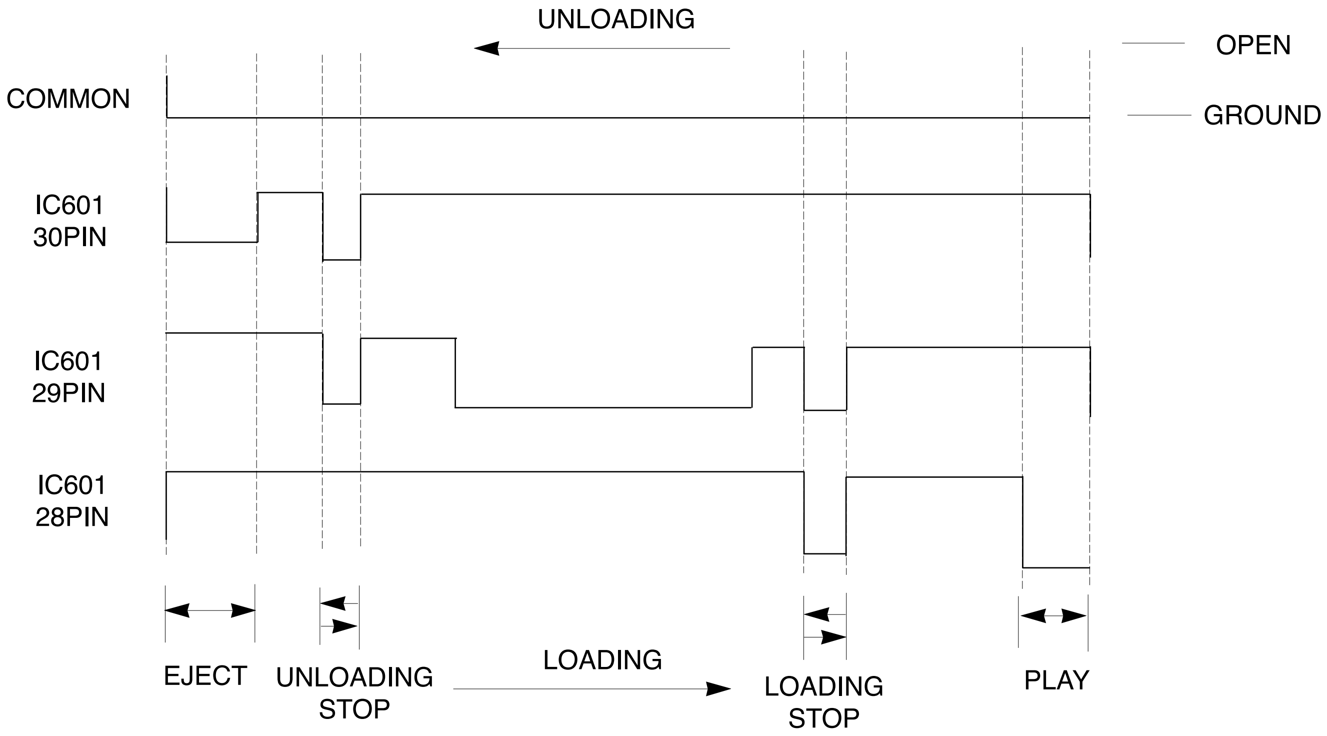
Button placement when remote is
used for service adjustment.


SAMSUNG
T
W
CONFIRM
DATA DOWN
DATA UP
MODE DOWN
FAR
NEAR
MODE UP

Reassignment is the
adjustment mode.

Note : In service adjustment mode, button names are different from those in customer VCR function control mode.
EX: "START/STOP" button is the same as "CONFIRM".

5-3-2 Timing Chart of Program SWITCH

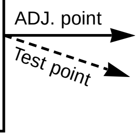


POSITION	IC601 30PIN	IC601 29PIN	IC601 28PIN	Action Mode
EJECT	L	H	H	EJECT
UNLOADING STOP	L	L	H	UNLOADING STOP
LOADING STOP	H	L	L	LOADING STOP
PB	H	H	L	PLAY,FF,REW,STILL...

5-3-3 DC/DC Converter Section

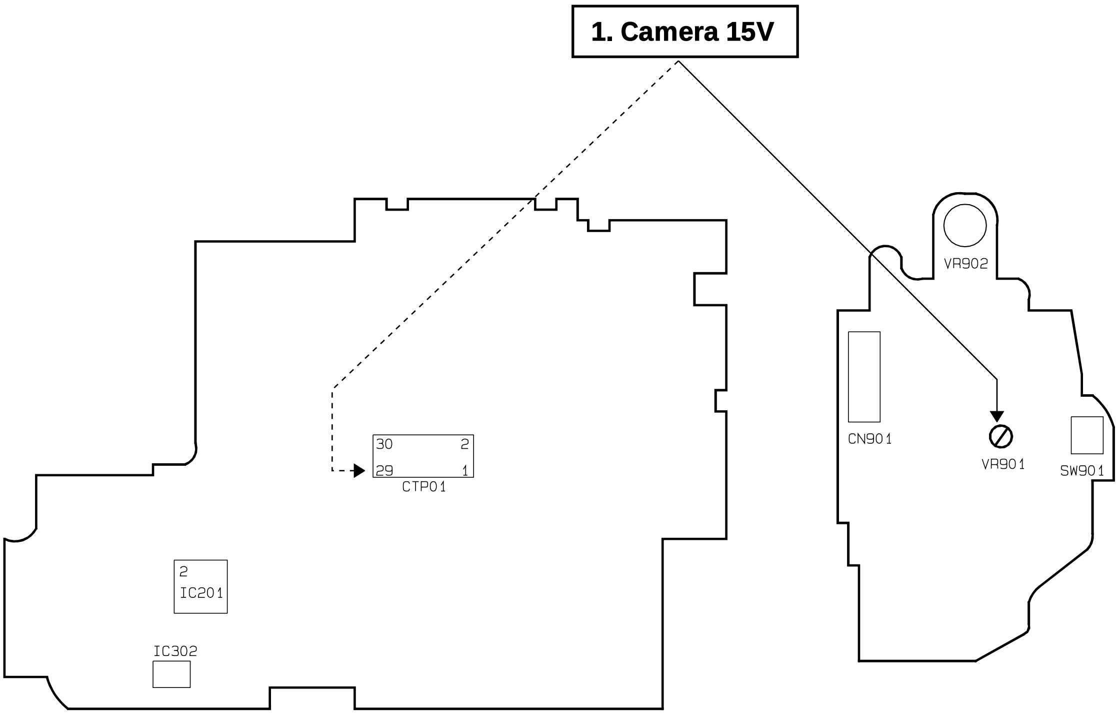
Note : From now on, the structure of every adjustment is as follows.

Step	Adjustment Item
1. Mode and input signal/ alignment tape 2. Test point and ADJ. part 3. Result and Remarks	


ADJ. point
Test point

1. Camera 15V

1). Camera, no signal input.
2). Pin 29 of CTP01 and VR901.
3). Set the knob-rotary to the camera mode.
4). Connect digital voltmeter probes to pin 29 of the CTP01.
5). Adjust VR901 so that the digital voltmeter becomes DC15 ± 0.1V.


1. Camera 15V
30
2
29
1
CTP01
2
IC201
IC302
VR902
CN901
VR901
SW901

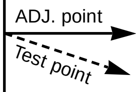
Main PCB (Component side)

DC/DC Converter PCB (Component side)

5-3-4 VCR Section

Note 1 : From now on, the structure of every adjustment is as follows.

Step	Adjustment Item
1. Mode and input signal/ alignment tape 2. Test point and ADJ. part 3. Result and Remarks	



Note 2 : How to connect video in/out signal

- Connect the video cable to pattern generator and ass'y A/V Jack, so that video in/out signal is adjusted automatically.

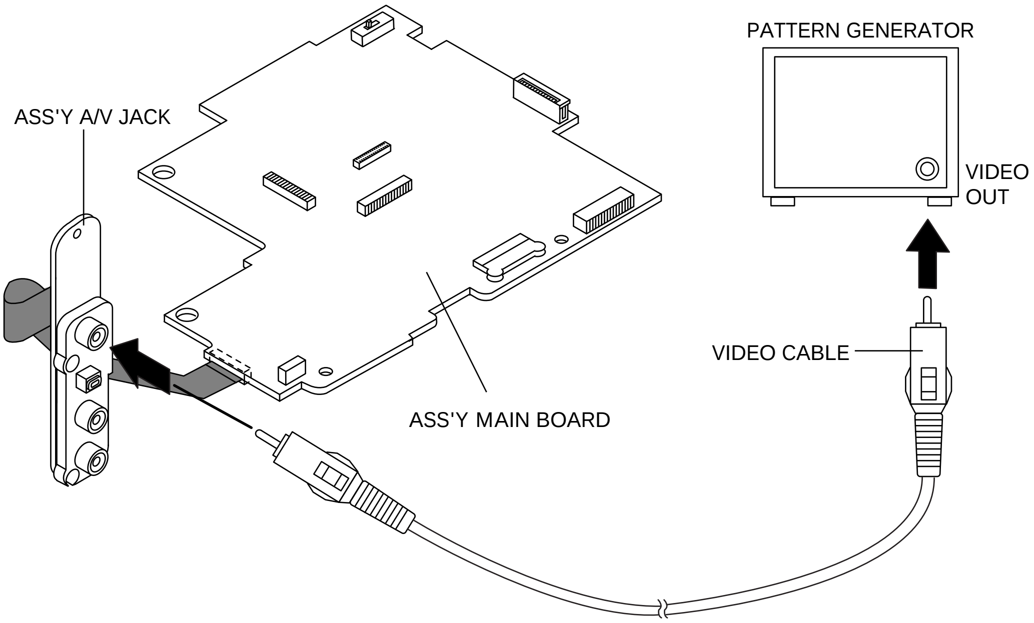


Fig. 2 Video Signal Connection

Note 3 :

How to record - Press the **"CAM-REC "** button on the unit function vcr board of unit at adjustment mode.

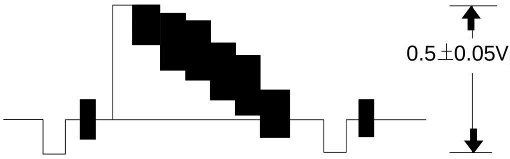
Note 4 : 1. Video block - See page 5-26 for the location of tests points and adjustments.
Audio block - See page 5-28 for the location of tests points and adjustments.
2. Press the "STILL" button of set for mode change.

Note 5 : The OSD information.
"XX" means arbitary values. It can be different number depend on the condition.

```
1. AGC
EPR:XX   EVR:XX
```

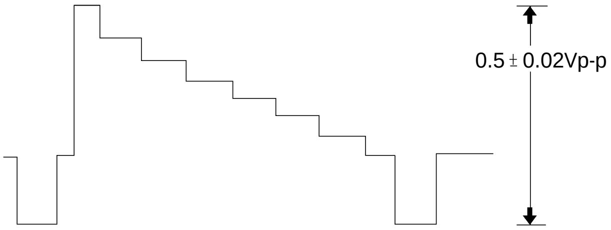
1. AGC (Video block)

1) Rec, 100% color bar signal.
2) TP201 and EVR.
3) Confirm the “1. AGC” mode by pressing the “STILL” (MODE CHANGE) button of remote control.
4) Connect an oscilloscope to TP201.
5) Press the “REW (DATA DOWN)/F.F (DATA UP)” button so that the TP201 is 0.5 ± 0.02Vp-p from SYNC tip to peak level.
6) Be sure to press the “START/STOP (CONFIRM)” button on remote control to memorize setting.



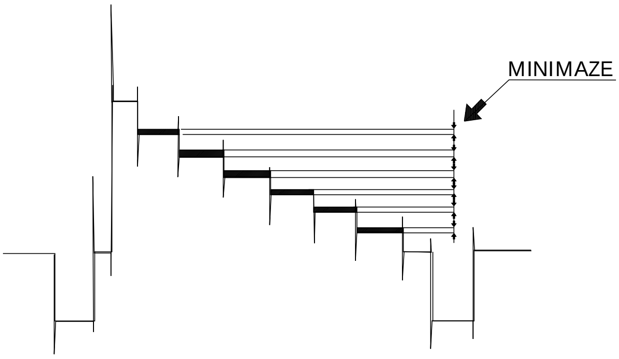
2. Y-EMPHASIS (Video block)

1) Rec, 100% color bar signal.
2) TP202 and EVR.
3) Confirm the “2. Y-EMPHASIS” mode by pressing the “STILL” (MODE CHANGE) button of remote control.
4) Connect an oscilloscope to TP202.
5) Press the “REW (DATA DOWN)/F.F (DATA UP)” button so that the TP202 is 0.5 ± 0.02Vp-p from SYNC tip to peak level.
6) Be sure to Press the “START/STOP (CONFIRM)” button on remote control to memorize setting.



3. Y/C Separation (Video block)

1) Rec, 100% color bar signal.
2) Pin 2 of IC201 and VR301, EVR.
3) Confirm the “3. Y/C SEP” mode by pressing the “STILL” (MODE CHANGE) button of remote control.
4) Connect an oscilloscope to pin 2 of IC201.
5) Adjust VR301 to minimize the residual chroma component.
6) Press the “REW (DATA DOWN)/F.F (DATA UP)” button so that the pin 2 of IC201 minimize the residual chroma component.
7) Adjust VR301 to minimize the residual chroma component.
8) Be sure to Press the “START/STOP (CONFIRM)” button on remote control to memorize setting.



4. CHROMA EMP (Video block)

“4. CHROMA EMP” Adjustment is fixed to EVR data A2.

5. Y-FM Carrier Frequency (Video block)

1) Rec, no signal input
2) TP203 and EVR
3) Confirm the “5. CARRIER” mode by pressing the “STILL” (MODE CHANGE) button of remote control.
4) Connect frequency counter probe to TP203.
5) Press the “REW (DATA DOWN)/F.F (DATA UP)” button so that the TP203 is 4.38 ± 0.02MHz.
6) Be sure to Press the “START/STOP (CONFIRM)” button on remote control to memorize setting.

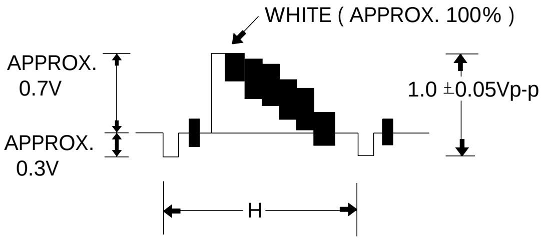
6. Y-FM Deviation (Video block)

Note : Confirm that “Y-FM Carrier Frequency” and “PB Output Level” adjustment have been completed.

1) Rec PB, 100% color bar signal.
2) TP202 and EVR.
3) Record the color bar signal at adjustment mode.
4) Turn power off/on and then playback the recorded signal.
5) Confirm the playback output of pin 24 of CTP01. (Specified value: 1.0 ± 0.05Vp-p)
6) If the specified value is not satisfied, repeat above three steps.

   - When larger than specified value : press the “F.F (DATA UP)” and then press the “START/STOP (CONFIRM)” button.

   - When smaller than specified value : press the “REW (DATA DOWN)” and then press the “START/STOP (CONFIRM)” button.



7. REC Y Level (Video block)

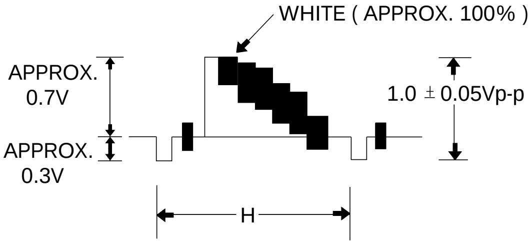
“7. REC Y” Adjustment is fixed to EVR data B3

8. REC C Level (Video block)

“8. REC C” Adjustment is fixed to EVR data A4

9. PB Output Level (Video block)

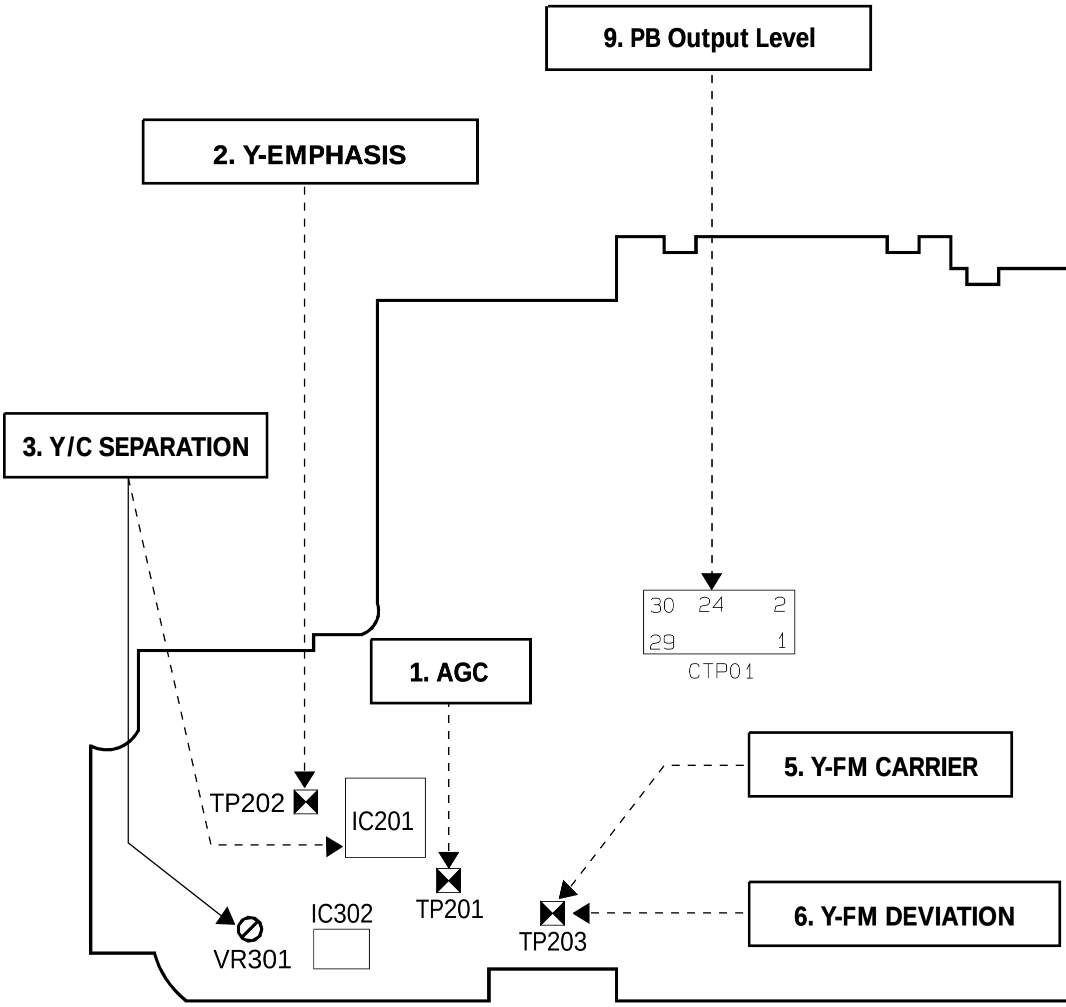
1) PB, color bar tape.
2) Pin 24 of CTP01 and EVR.
3) Confirm the “9. PB Y” mode by pressing the “STILL” (MODE CHANGE) button of remote control.
4) Connect an oscilloscope to pin 24 of CTP01.
5) Press the “REW (DATA DOWN)/F.F (DATA UP)” button so that the pin 24 of CTP01 is 1.0 ± 0.05Vp-p from SYNC to peak level.
6) Be sure to Press the “START/STOP (CONFIRM)” button on remote control to memorize setting.



◆ Test point and adjustment points :

NO	Adjustment name	Test point	Adjustment point	Spec.
1	AGC	TP201	EVR	0.5 ± 0.02Vp-p
2	Y-EMPHASIS	TP202	EVR	0.5 ± 0.02Vp-p
3	Y/C SEPARATION	Pin 2 of IC201	VR301, EVR	-
4	CHROMA EMP	-	EVR data fixed	A4
5	Y-FM CARRIER FREQUENCY	TP203	EVR	4.38 ± 0.02MHz
6	Y-FM DEVIATION	TP202	EVR	1.0 ± 0.05Vp-p
7	REC Y LEVEL	-	EVR data fixed	B3
8	REC C LEVEL	-	EVR data fixed	A4
9	PB OUTPUT LEVEL	Pin 24 of CTP01	EVR	1.0 ± 0.05Vp-p

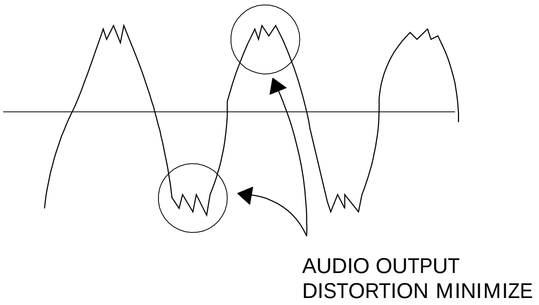
Test point	- - - - - - - -►
ADJ. point	──────►


9. PB Output Level
2. Y-EMPHASIS
3. Y/C SEPARATION
1. AGC
5. Y-FM CARRIER
6. Y-FM DEVIATION
30
24
2
29
1
CTP01
TP202
IC201
TP201
TP203
IC302
VR301

Main PCB (Component side)

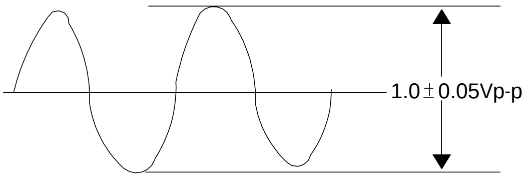
10. Audio BPF (Audio block)

1) PB, color bar tape.
2) Pin 4 of CTP01 and EVR.
3) Confirm the "A. AUDIO BPF" mode by pressing the "STILL" (mode change) button of remote control.
4) Connect an oscilloscope to pin 4 of CTP01.
5) Press the "REW(DATA DOWN)/FF(DATA UP)" button so that the output waveform is completed sine wave and the distortion is miniized.
6) Be sure to Press the "START/STOP(CONFIRM)" button on remote control to memorize setting.



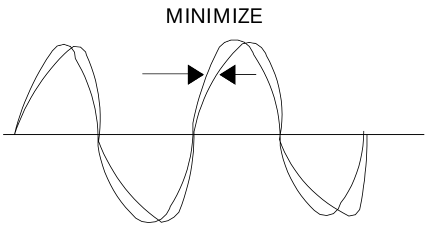
11. Audio 1.5MHz Deviation (Audio block)

1) PB, color bar tape.
2) Pin 4 of CTP01 and EVR.
3) Confirm the "B. AUDIO L" mode by pressing the "STILL" (mode change) button of remote control.
4) Connect an oscilloscope to pin 4 of CTP01.
5) Press the "REW(DATA DOWN)/FF(DATA UP)" button so that the pin4 of CTP01 is 1.0 ± 0.05Vp-p
6) Be sure to Press the "START/STOP(CONFIRM)" button on remote control to memorize setting.



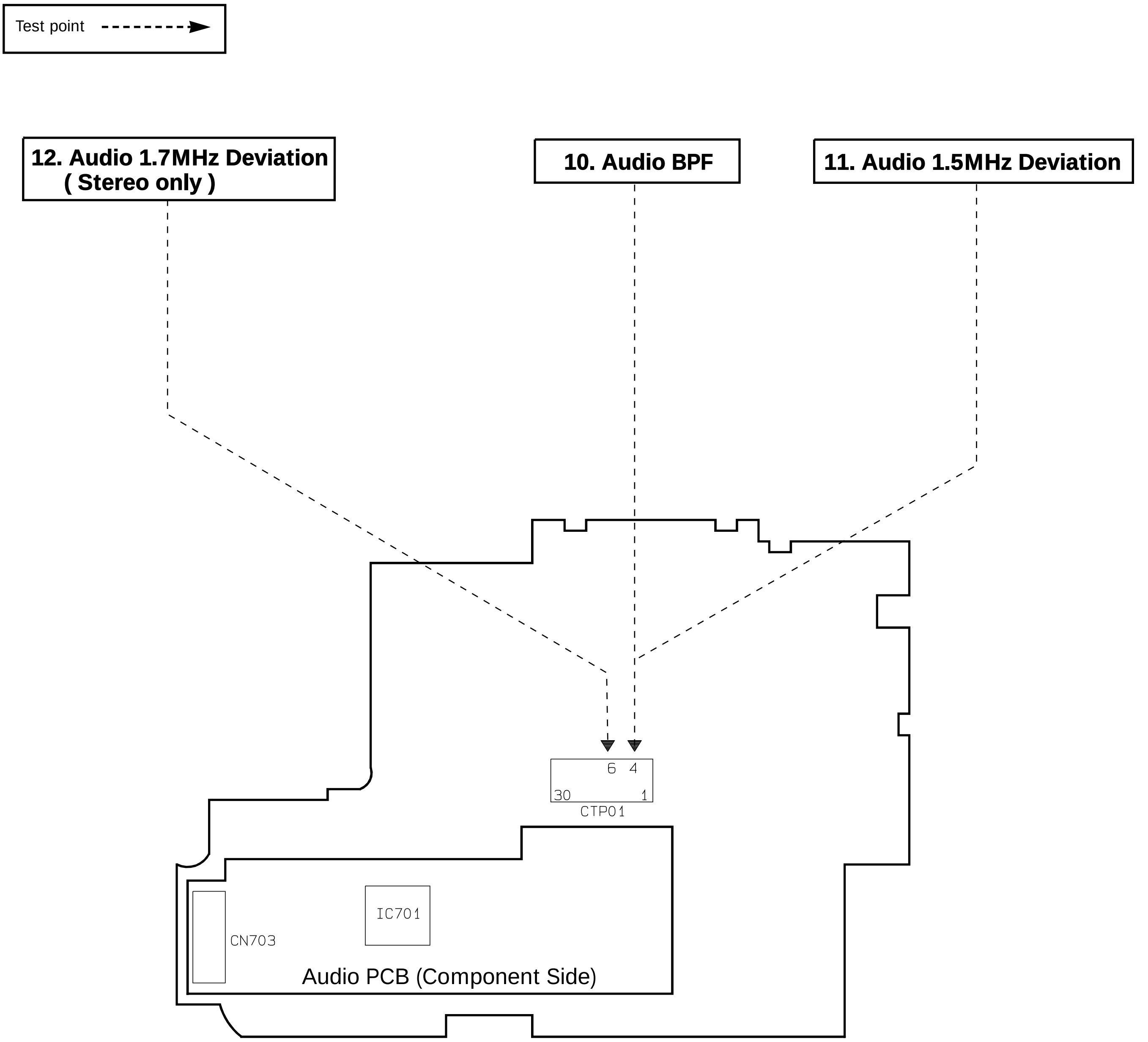
12. Audio 1.7MHz Deviation (Audio block)
- Stereo only

1) PB, color bar tape.
2) Pin 6 of CTP01 and EVR.
3) Confirm the "C. AUDIO R" mode by pressing the "STILL" (mode change) button of remote control.
4) Connect an oscilloscope to pin 6 of CTP01.
5) Press the "REW(DATA DOWN)/FF(DATA UP)" button so that the output of pin6 of CTP01 is minimize distortion.
6) Be sure to Press the "START/STOP(CONFIRM)" button on remote control to memorize setting.



◆ Test point and adjustment points :

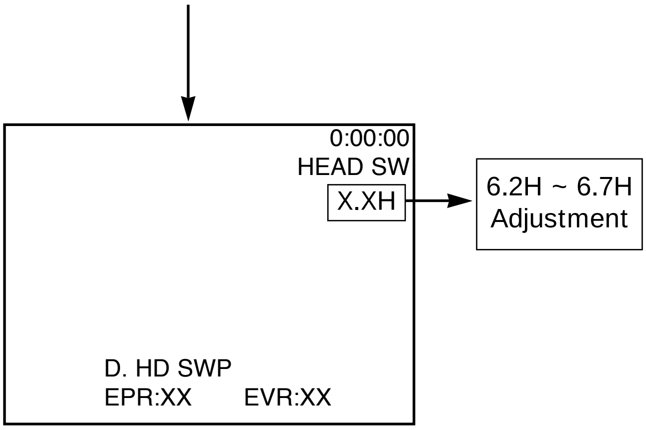
NO	Adjustment name	Test point	Adjustment point	Spec.
10	AUDIO BPF	Pin 4 of CTP01	EVR	-
11	AUDIO 1.5MHzDEVIATION	Pin 4 of CTP01	EVR	1.0±0.05Vp-p
12	AUDIO 1.7MHzDEVIATION	Pin 6 of CTP01	EVR	-


Test point
12. Audio 1.7MHz Deviation (Stereo only)
10. Audio BPF
11. Audio 1.5MHz Deviation
6
4
30
1
CTP01
IC701
CN703
Audio PCB (Component Side)

Main PCB (Component Side)

13. Head Switching (Servo block)

1) PB, color bar tape.
2) EVR.
3) Confirm the “D. HD SWP” mode by pressing the “STILL“ (MODE CHANGE) button of remote control.
4) Press the “REW(DATA DOWN)/FF(DATA UP)” button so that Head S/W data in EVF or CVF is 6.2H ~ 6.7H.
5) Be sure to press the “START/STOP (CONFIRM)” button on remote control to memorize setting.



(EVF or CVF OSD)

14. Model set

1) PB, color bar tape.
2) EVR.
3) Confirm the “E. MODEL” mode by pressing the “STILL“ (MODE CHANGE) button of remote control.
4) Press the “REW(DATA DOWN)/FF(DATA UP)” button so that OSD shows “EPR:XX EVR:XX”. “XX” is different depend on the models as shown below.
   - VP-A12 : 12
   - VP-A15 : 55
   - VP-A17 : 37
   - VP-A18 : 78
5) Be sure to press the “START/STOP (CONFIRM)” button on remote control to memorize setting.
6) After finishing the adjustment, reset main power source (OFF-ON) to operate the memorized model.

MEMO

6. Exploded View and Parts List

Page

6-1 Cabinet Assembly (1) - 6-2

6-2 Cabinet Assembly (2) - 6-4

6-3 Cabinet Assembly (3) - 6-6

6-4 Mechanical Parts (1) - 6-8

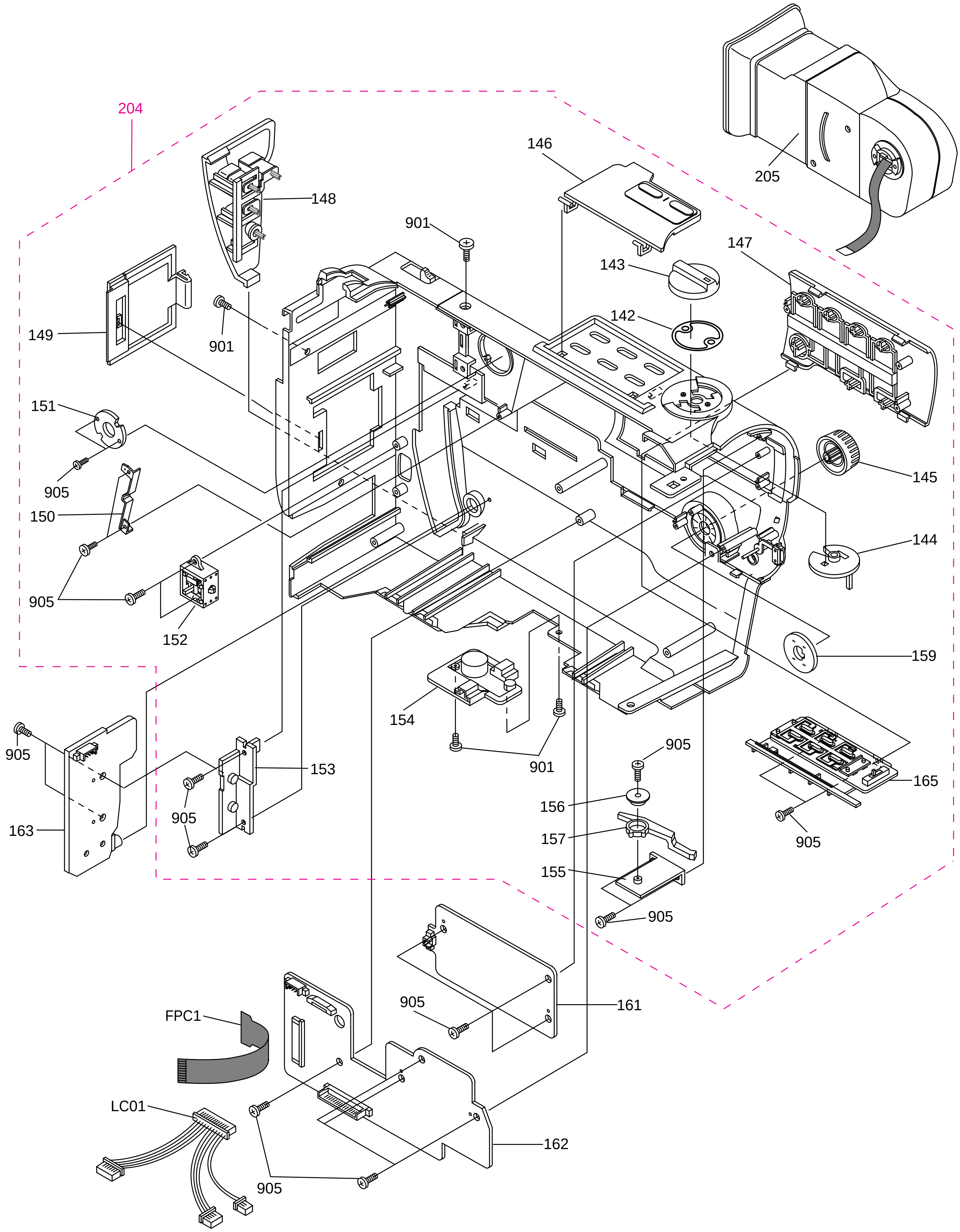
6-5 Mechanical Parts (2) - 6-10

6-6 Mechanical Parts (3) - 6-12

6-7 EVF (VP-A12/VP-A17) - 6-14

6-8 CVF (VP-A15/VP-A18) - 6-16

6-1 Cabinet Assembly (1)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FPC1
LC01
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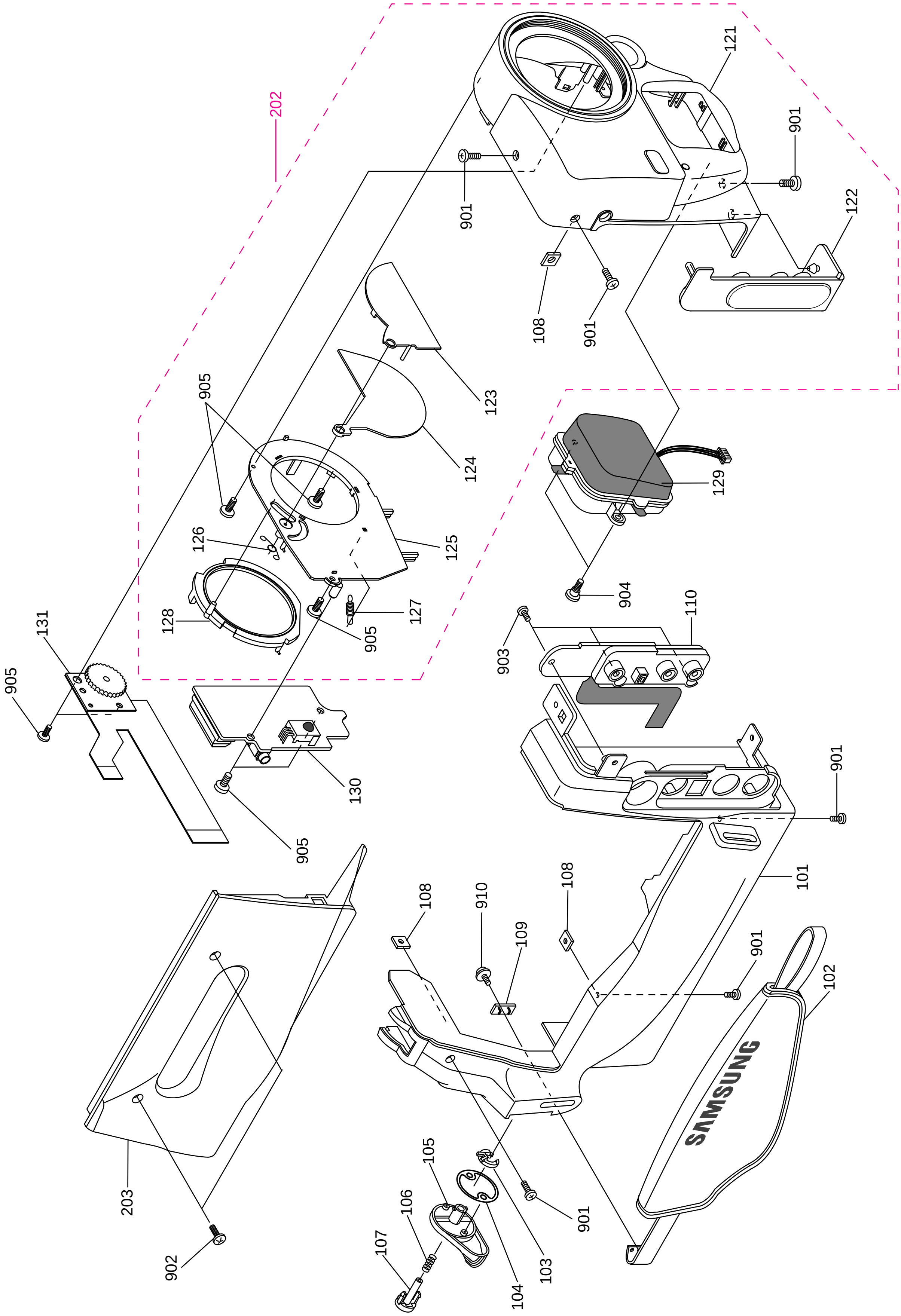
Loc. No	New Part No	Description and Specification	Remark
142	AD61-60545A	SPRING-POWER;-,-,STS301H,T0.2,-,-,VP-A57	
143	AD64-10771A	KNOB-POWER;-,ABS94,HB,D/GRAY,-,VP-A57	
144	AD61-20973A	HOLDER-POWER;-,ABS94,HB,BLK,-,VP-A57	
145	AD64-10772E	KNOB-ROTARY;-,ABS94,HB,-,-,VP-A12,VP-A15	
	AD64-10772C	KNOB-ROTARY;-,ABS94,HB,-,-,VP-A17,VP-A18	
146	AD98-11219Q	ASSY-COVER FUNCTION;VP-A17,NOR	
147	AD59-10342E	UNIT-CASE SIDE;VP-A12,VP-A15	
	AD59-10342B	UNIT-CASE SIDE;VP-A17,VP-A18	
148	AD59-10384A	UNIT-CASE BACK;VP-A12,VP-A15	
	AD59-10341A	UNIT-CASE BACK;VP-A17,VP-A18	
149	AD63-30526A	COVER-BATTERY;-,ABS94,V0,-,BLK,-,-,VP-A57	
150	AD61-60532A	SPRING-EVF;-,-,BE-CU,-,-,-,VP-A57	
151	AD61-20976A	HOLDER-EVF;-,POM,-,BLK,-,VP-A57	
152	AC59-90001L	UNIT-BATTERY EJECT;VP-K70,-,-	
153	AD61-20975A	HOLDER-PCB;-,ABS94,HB,BLK,-,VP-A57	
154	AD98-12002D	ASSY-TRIPOD;VP-A57,-	
155	AD61-20972A	HOLDER-LEVER;-,ABS94,HB,BLK,-,VP-A57	
156	AD61-50679A	BUSH-LEVER;-,ABS94,V0,-,-,-,-,VP-A57	
157	AD66-30493A	LEVER-BUILT;-,ABS 94HB,-,-,BLK,VP-A57	
159	AD61-20971A	HOLDER-ROTARY;-,POM,-,NTR,-,VP-A57	
161	AD59-10402A	UNIT-FUNCTION,BLC;A-PJ,BLC ASSY	
162	AD59-10397A	UNIT-FUNCTION,DSE;VP-A12,VP-A17	
	AD59-10398A	UNIT-FUNCTION,DSE;VP-A15,VP-A18	
163	AD59-10403A	UNIT-FUNCTION,EAR;A-PJ,EAR ASSY	
165	AD98-11220L	ASSY-VTR FUNCTION;VP-A17,HOLDER+PCB+BUTTON	
204	AD98-11218P	ASSY-CASE LEFT;VP-A12	
	AD98-11218V	ASSY-CASE LEFT;VP-A15	
	AD98-11218S	ASSY-CASE LEFT;VP-A17	
	AD98-11221Z	ASSY-CASE LEFT;VP-A18	
205	AD90-10804X	ASSY-EVF;VP-A12,VP-A17	
	AD90-10812P	ASSY-CVF;VP-A15,VP-A18	
901	AC60-10020A	SCREW-MACHINE;BH,+,M2,X5,FZB,FE,UP,-,-	
905	AC60-10055A	SCREW-TAPPING;BH,+,-,M2,X4,FZB	
FPC1	AD41-20300W	FPC-FUNC;POLYWIDE,0.25,22P,VP-A57/SEG	
LC01	AD39-20825L	LEAD CONNECTOR-ASSY;-,51021-11P,51021-05/04/02P	

Note : The part number of Loca. No. 147, 204 may be different depend on the buyer. If it is changed, the separate information will be informed.

6-2 Cabinet Assembly (2)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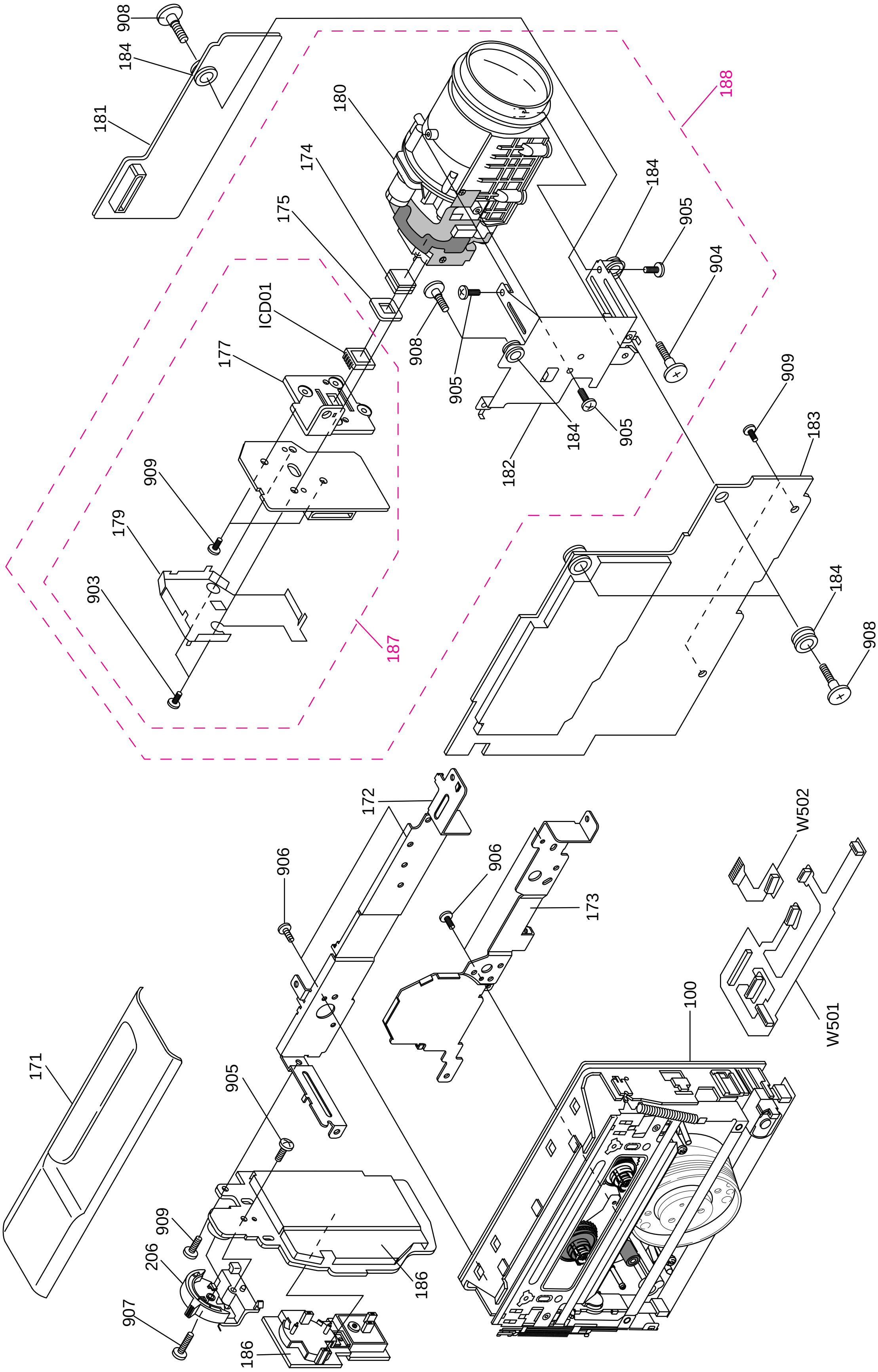
Loc. No	New Part No	Description and Specification	Remark
101	AD64-30840C	CASE-RIGHT;-,ABS94,HB,-,-,-,NORMAL,VP-A17	
102	AC63-10007A	GRIP-BELT ASSY;LEATHER,BLK,T1.5,-,SV-H66,-,-	
103	AD61-20978A	HOLDER-STAND/BY;-,POM,-,NTR,-,VP-A57	
104	AD61-60533A	SPRING-REC STOP;-,-,STS,T0.2,-,-,VP-A57	
105	AD64-10774A	KNOB-STAND/BY;-,ABS,HB,BLK,-,VP-A57	
106	AC61-60068A	SPRING-BUTTON;CS,STS304 WPB,P0.2,D4,L7,-,-	
107	AD64-10783A	BUTTON-REC;-,ABS94,HB,RED,-,VP-A57	
108	AC61-20223A	HOLDER-LOCK;SECC,T1.0,NAT,-,-,-	
109	AD61-20977A	HOLDER-GRIP;-,PBT,-,BLK,-,VP-A57	
110	AD37-20001B	JACK-AV ASSY;A-PJ,NOR,MONO,VP-A12	
	AD37-20001C	JACK-AV ASSY;A-PJ,NOR,STEREO,VP-A15,VP-A17,VP-A18	
121	AD64-30842G	CASE-FRONT;-,ABS 94,HB,-,-,BLK,-,VP-A12,VP-A15	
	AD64-30842A	CASE-FRONT;-,ABS 94,HB,-,-,D/GRAY,-,VP-A17,VP-A18	
122	AD63-30527A	COVER-JACK;-,PE,-,-,BLK,-,-,VP-A57	
123	AD63-30523A	COVER-LENS A;-,ABS94,HB,-,BLK,-,-,VP-A57	
124	AD63-30524A	COVER-LENS B;-,ABS94,HB,-,BLK,-,-,VP-A57	
125	AD61-20979A	HOLDER-LENS COVER;-,ABS 94,HB,BLK,-,VP-A57	
126	AD61-60534A	SPRING-COVER;-,-,SUS304,PI0.5,-,-,VP-A57	
127	AD61-60542A	SPRING-COVER(2);-,-,SUS304,PI0.18,OD2.2,-,VP-A	
128	AD63-30529A	COVER-ROTATE;-,ABS94,HB,-,-,-,-,VP-A57	
129	AD98-11219L	ASSY-MIC;MONO,VP-A12	
	AD98-11213A	ASSY-MIC;STEREO,VP-A15,VP-A17,VP-A18	
130	AD90-10809C	ASSY-MIC BOARD;A-PJ MONO MIC,VP-A12	
	AD90-10809A	ASSY-MIC BOARD;A-PJ STEREO VP-A15	
	AD90-10805C	ASSY-MIC BOARD;A-PJ STEREO MIC,EIS,VP-A17,VP-A18	
131	AD90-10808E	ASSY-FPC MIC;VP-A57/SEG,MIC	
202	AD59-10387A	UNIT-CASE FRONT;VP-A12,VP-A15	
	AD59-10340A	UNIT-CASE FRONT;VP-A17,VP-A18	
203	AD59-10408A	UNIT-COVER HOUSING;VP-A17,-	
901	AC60-10020A	SCREW-MACHINE;BH,+,M2,X5,FZB,FE,UP,-,-	
902	AD60-10001A	SCREW-MACHINE;BH,B,1.7*5.5,-,FE,BLACK,-,VP-K	
903	AC60-10054A	SCREW-TAPPING;BH,+,-,M2,X6,FZB	
904	AC60-12119A	SCREW-TAP TITE;-,BH,+,-,-,SWRCH18A2P4	
905	AC60-10055A	SCREW-TAPPING;BH,+,-,M2,X4,FZB	
910	AD60-10509A	SCREW-TAP TITE;-,PWH,+,-,M2X5,5,-	

6-3 Cabinet Assembly (3)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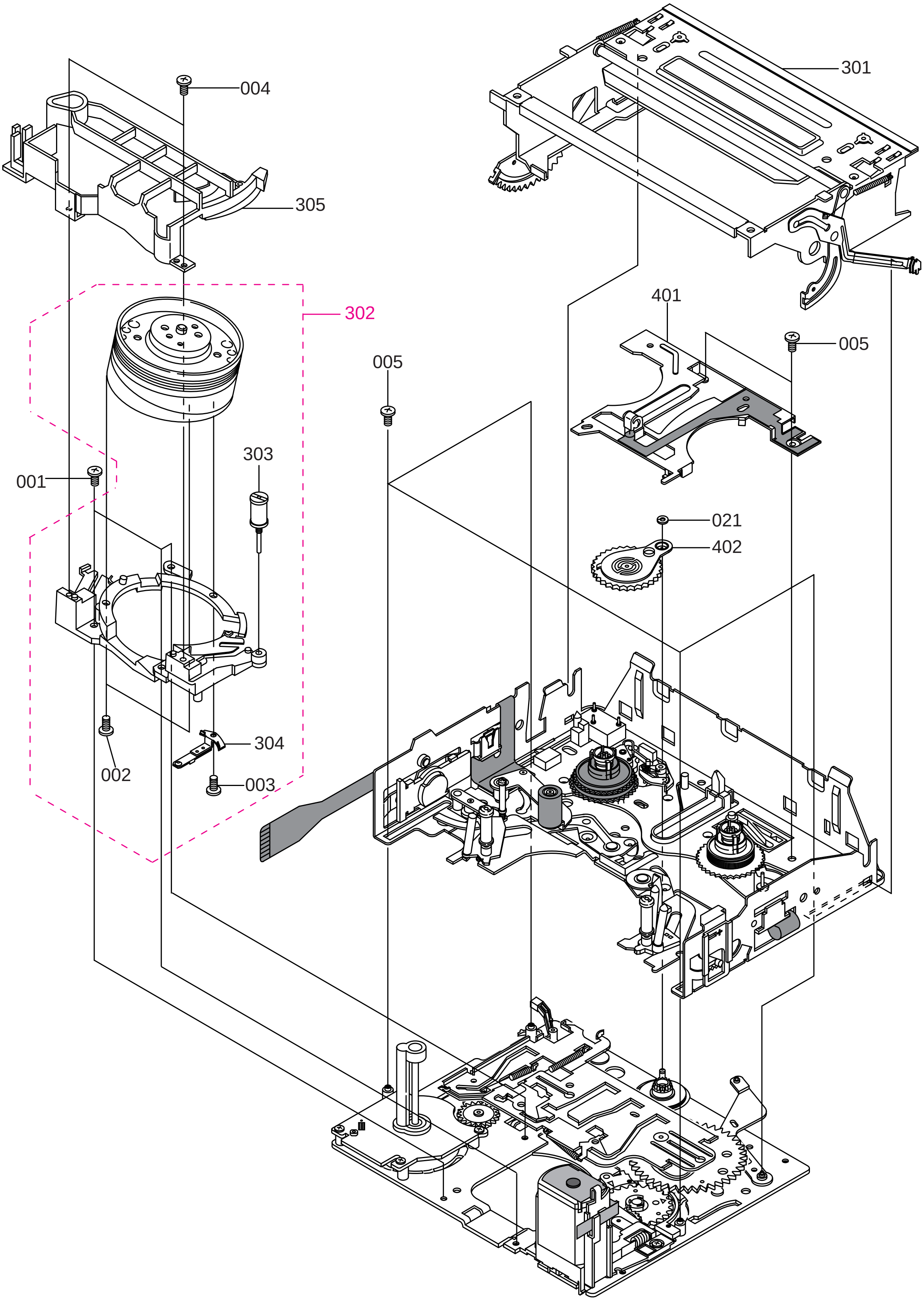
Loc. No	New Part No	Description and Specification	Remark
100	AC96-10013V	ASSY-DECK 8MM;DE-6PN,-	
171	AD98-11205B	ASSY-CASE TOP;VP-A57,-	
172	AD61-10985A	BRACKET-DECK A;-,STS301,-,T0.5,-,-,VP-A57	
173	AD61-10986A	BRACKET-DECK B;-,STS301,-,T0.5,-,-,VP-A57	
174	AC29-92002D	FILTER-OLP;SV-3C01MM,KSS,-,-	
175	AC63-62007A	SPACER-CCD;SILICON,-,BLK,-,VP-K70,-	
177	AD61-30171B	PLATE-CCD;-,AL,T1.2,-,VP-A17(NOR)	
179	AD63-40839A	SHIELD-CASE CCD;-,SPTE,T0.2,-,VP-A57	
180	AD90-10809R	ASSY-LENS ZOOM;SV-A57,SEC 16X ZOOM	
181	AD90-10808V	ASSY-AUDIO BOARD;MONO AUDIO,VP-A12	
	AD90-10809B	ASSY-AUDIO BOARD;STEREO AUDIO,VP-A15	
	AD90-10806Y	ASSY-AUDIO BOARD;STEREO AUDIO,EIS,VP-A17,VP-A18	
182	AD61-10990A	BRACKET-LENS;-,STS301,-,0.5,-,-,VP-A57	
183	AD90-10808X	ASSY-MAIN BOARD;S8C-PAL,MONO,D.ZM,VP-A12	
	AD90-10814Y	ASSY-MAIN BOARD;S8C-PAL,STEREO,D.ZM,VP-A15	
	AD90-10804C	ASSY-MAIN BOARD;S8C-PAL,VP-A17	
	AD90-10815A	ASSY-MAIN BOARD;S8C-PAL,VP-A18	
184	AC64-10176A	KNOB-RUBBER-LENS;NR,-,BLK,-,VP-K70,-	
185	AD59-10407A	UNIT-DC/DC BOARD;VP-A17,DC-DC ASSY	
186	AD59-10331A	UNIT-BATT TERMINAL;VP-A57,-	
187	AD90-10812F	ASSY-CCD BOARD;VP-A12,VP-A15	
	AD90-10808S	ASSY-CCD BOARD;VP-A17,VP-A18	
188	AD90-10812G	ASSY-CCD;VP-A12,VP-A15	
	AD90-10803Z	ASSY-CCD;VP-A17,VP-A18	
206	AD59-10343A	UNIT-KNOB T/W;VP-A57,-	
903	AC60-10054A	SCREW-TAPPING;BH,+,-,M2,X6,FZB	
904	AC60-12119A	SCREW-TAP TITE;-,BH,+,-,-,SWRCH18A2P4	
905	AC60-10055A	SCREW-TAPPING;BH,+,-,M2,X4,FZB	
906	AC60-10017A	SCREW-MACHINE;BH,+,M1.7,X3.5,FEFZY,SWCH1018,	
907	AD60-10510A	SCREW-MACHINE;-,PLAN,+,-,M1.4X5,5,BLK,FE-ZN,	
908	AD60-10507A	SCREW-SPACER;-,PLAN,+,-,M2.0X0.35,8.2,BLK,M	
909	AC60-10024A	SCREW-MACHINE;BH,+,M2,X3,FZW,FE,-,-,-	
ICD01	0605-001009	CCD;COLOR,DIP,14,400MIL,320K,7.3X4,VP-A12,VP-A15	
	0605-001005	CCD;COLOR,DIP,14P,400MIL,570K,4.85,VP-A17,VP-A18	
W501	AD90-10808C	ASSY-FPC DECK;VP-A57/SEG,DECK	
W502	AD90-10808D	ASSY-FPC PRE-AMP;VP-A57/SEG,VCR-MAIN	

6-4 Mechanical Parts (1)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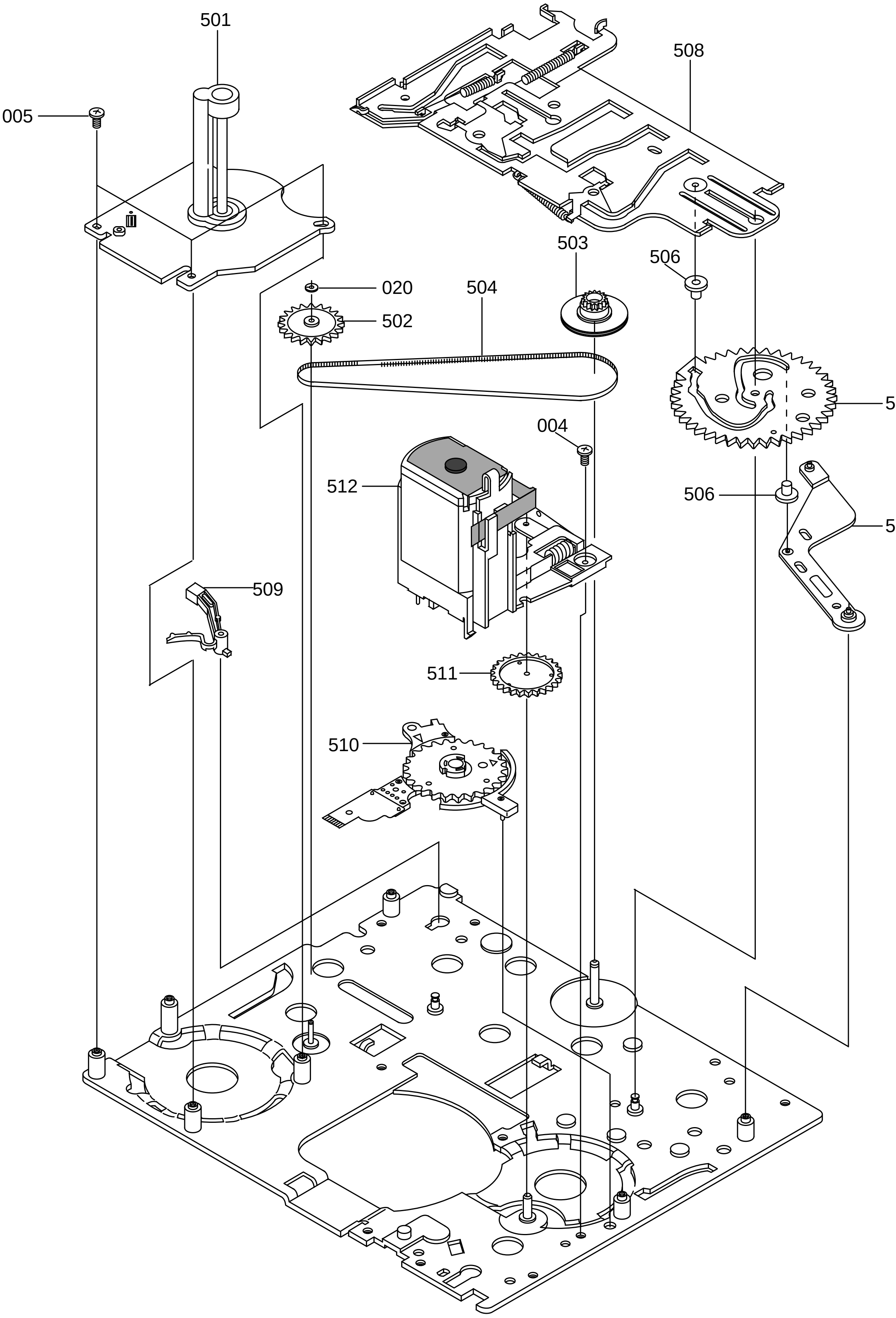
Loc. No	New Part No	Description and Specification	Remark
001	AC60-12115A	SCREW;UP,BH,-,M2,L9,SWRCH10A HDZ45	
002	AC60-10500E	SCREW-MACHINE;-,BWSH,+UP,M2,L5,ZPCNYLOCK,SWR	
003	AC60-10500E	SCREW-MACHINE;-,BWSH,+UP,M2,L5,ZPCNYLOCK,SWR	
004	AC60-10017A	SCREW-MACHINE;BH,+,M1.7,X3.5,FEFZY,SWCH1018,	
005	AC60-12112A	SCREW-BH;-,BH,+,M1.4,L2,-	
021	AC60-30015A	WASHER-SLIT;ID 1.1,OD 2.6,T 0.4,POLYSLIDER	
301	AC61-82004A	HOUSING-ASSY;-,-,-,DE-6,-	
302	AC96-10005X	ASSY-DRUM;DE5-6PH-SS,-	
303	AC66-40153A	ROLLER-IMP ASSY;-,YF-10,OD7,-,DE-6	
304	AC61-72009A	CONTACT-EARTH BRUSH;SECC/PBSP/CR/C,-,-,-,-,DE-5,-	
305	AC63-32091A	COVER-DRUM;DURACON(M90-44),-,-,-,-,-,DE-6	
401	AC63-30009A	COVER-REEL ASSY;ABS 95,HB,-,-,-,-,DE-6,-	
402	AC66-12035A	IDLER-ASSY;-,-,DE-6	

6-5 Mechanical Parts (2)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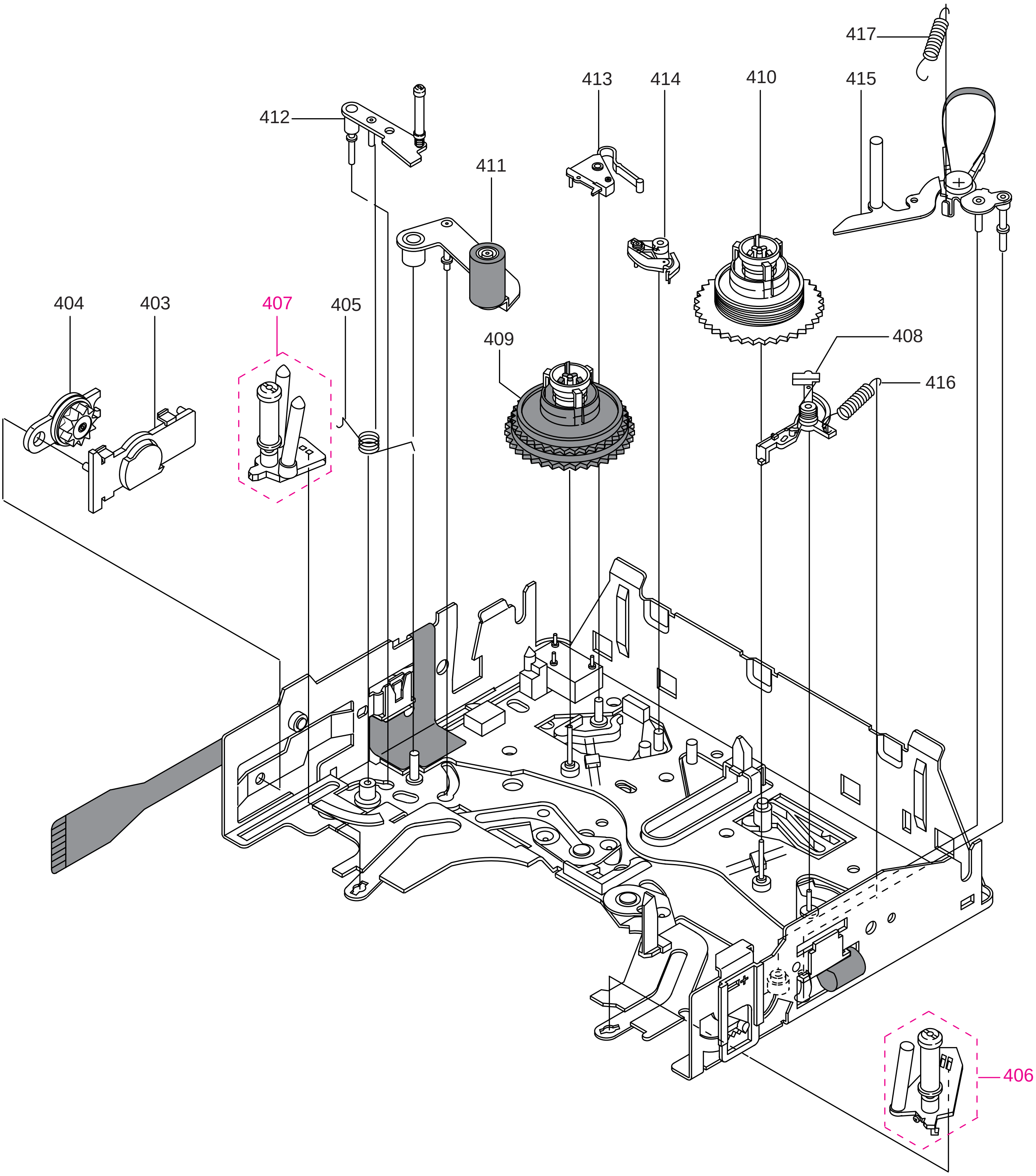
004	AC60-10017A	SCREW-MACHINE;BH,+,M1.7,X3.5,FEFZY,SWCH1018,	
005	AC60-12112A	SCREW-BH;-,BH,+,M1.4,L2,-	
020	AC60-30017A	WASHER-SLIT;ID 1,OD 2.6,T 0.4,POLYSLIDER,-	
501	AD31-12002A	MOTOR-CAPSTAN;DMCCHL06B,-,-	
502	AC66-22123A	GEAR-CAPSTAN(ASSY);-,-,-,-,-,DE-6	
503	AC66-22124A	GEAR-PULLEY(ASSY);-,-,-,-,-,DE-6	
504	AC66-62001A	BELT-TIMMING;POLYURETHAN,L137 T0.4,-,-,-,-,	
505	AC66-32197A	LEVER-CAM;SUS430-CP,T0.6,-,-,DE-6,-	
506	AC66-42005A	ROLLER-CAM MAIN;SUS303,-,-,PI3.5X1.1	
507	AC66-22092A	GEAR-CAM MAIN;SUS304-CSP,M0.5,Z64,-,-,-	
508	AC66-82055A	SLIDER-MAIN(ASSY);-,-,-,-,DE-6	
509	AC66-32198A	LEVER-EJECT;DURANEX #3300,-,-,-,DE-6,-	
510	AC34-22001C	SWITCH-MODE ASSY;HMW0484-01WA,DE-6,-,-,-,-,-,-	
511	AC66-22126A	GEAR-LOADING;DURACON(99-44),M0.4,Z37 WO,-,-	
512	AC31-12001P	MOTOR-LOADING ASSY;DE-6,-,-	

6-6 Mechanical Parts (3)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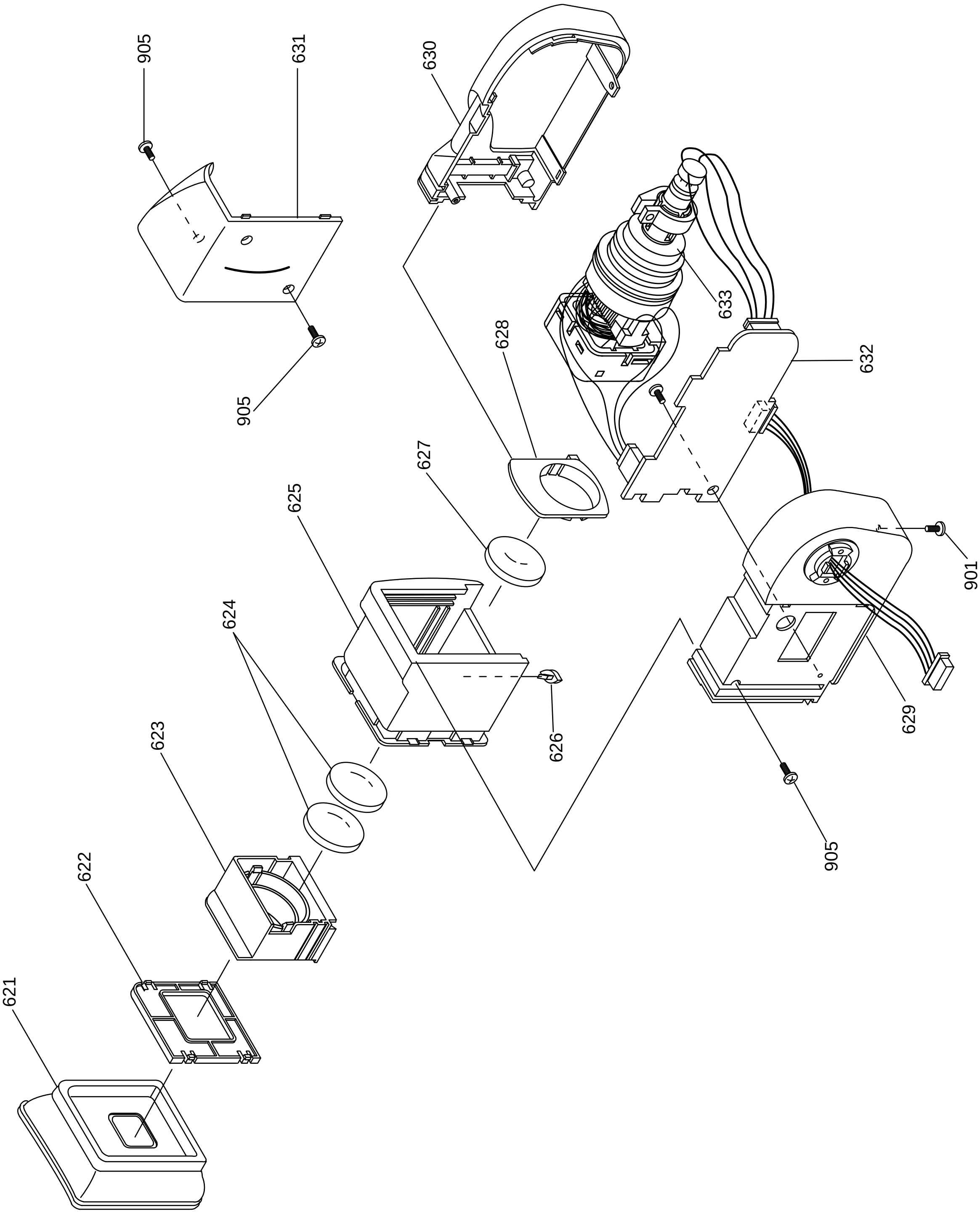
Loc. No	New Part No	Description and Specification	Remark
403	63313-0198-00	COVER-DAMPER;DURACON(M90-44) NTR DE-6	
404	AC61-82002A	DAMPER-HOUSING;Y29TO-E,-,14G,-,-,DE-6,-	
405	62724-0278-00	SPRING-REVIEW ARM;PS SUS304-WPB PI0.3	
406	AC61-52014A	POLE-BASE S(ASSY);ZDC2/SUS303,-,-,-,-,DE-6,-	
407	AC61-52015A	POLE-BASE T(ASSY);ZDC2/SUS303,-,-,-,-,DE-6,-	
408	AC66-32221A	BRAKE-SUB S(ASSY);-,-,-,-,DE-6,-	
409	AC66-12042A	REEL-T(ASSY);-,-,-,DE-6	
410	AC66-12041A	REEL-S(ASSY);-,-,-,DE-6	
411	AC66-32217A	ARM-PINCH ROLLER(ASS;-,-,-,-,DE-6	
412	AC66-32213A	ARM-REVIEW ASSY;-,-,-,-,DE-6	
413	AC66-32223A	BRAKE-MAIN(T);DURACON(M904-44),-,-,-,-,-	
414	AC66-30120A	BRAKE-SOFT T (ASSY);-,-,-,-,DE-6,-	
415	AC66-30093A	ARM-TENSION (ASSY);SUS304-CSP POM FELT,-,-,-,DE-	
416	AC61-62022A	SPRING-SOFT BRAKE(S);-,SUS304,-,-,-,-,-	
417	AC61-62023A	SPRING-TENSION;-,SUS304-WPB,-,-,-,-,-	

6-7 EVF (VP-A12/VP-A17)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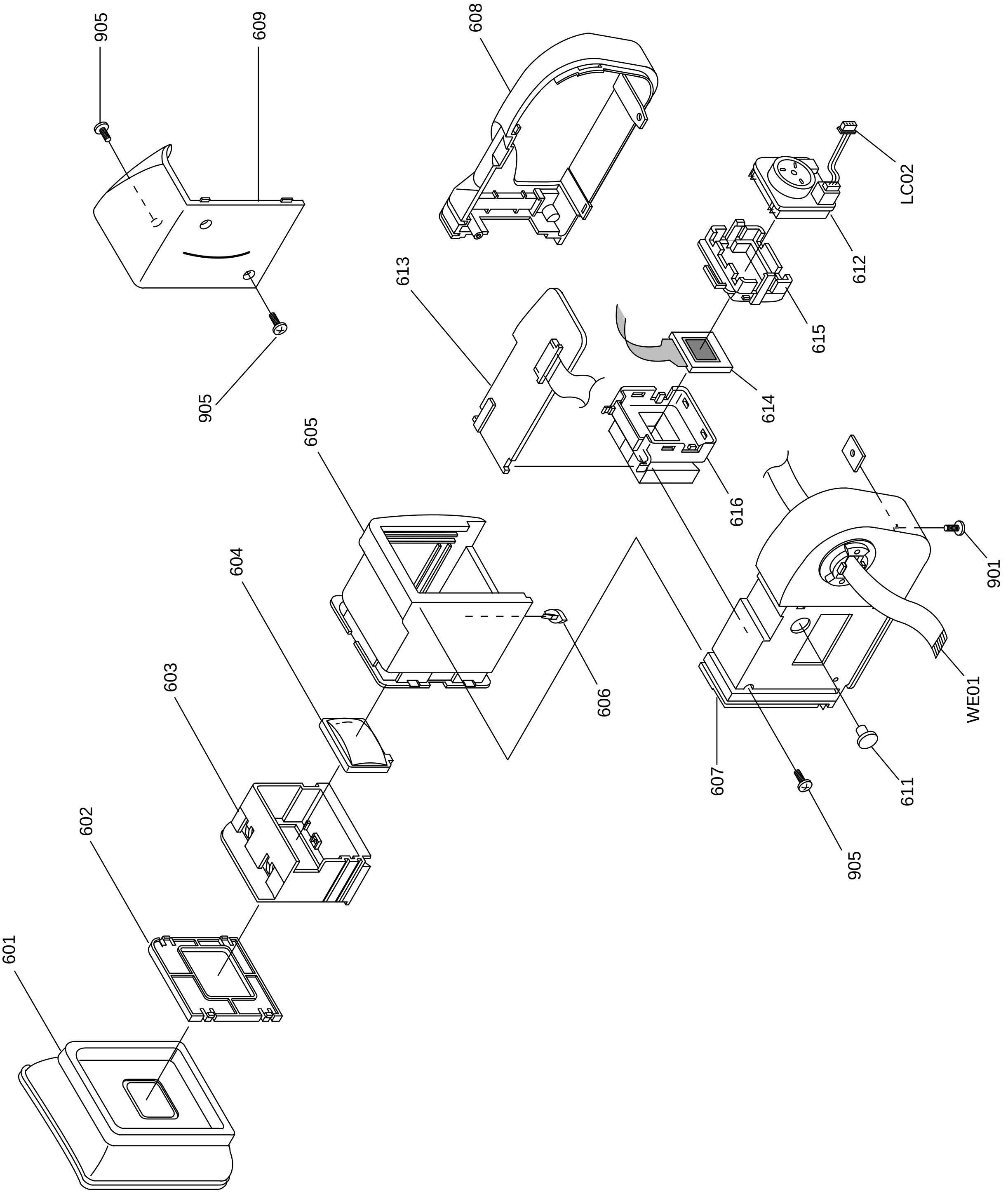
Loc. No	New Part No	Description and Specification	Remark
621	AD73-10014A	RUBBER-EYE CUP;SILICON,-,VP-A57,-	
622	AD61-40376A	STOPPER-LENS;-,ABS94,HB,-,-,VP-A57	
623	AD61-20990A	HOLDER-LENS(B/W);-,ABS 94,HB,-,-,VP-A57	
624	AC67-12070A	LENS-EVF(MD);PMMA D19.1 ASP,-,-,-,-,-	
625	AD61-11007B	BODY-LENS;-,ABS94,HB,-,-,-,VP-A17	
626	AD64-10777A	KNOB-SLIDE;-,ABS,HB,-,-,VP-A57	
627	AC67-10066A	LENS-EVF GJ;-,OPT,GRASS -F1,D11.5,-,CS 96.-	
628	AC61-20260A	HOLDER-EYE LENS B;ABS 94,HB,BLK,-,-,VP-A57	
629	AD98-11219W	UNIT-EVF R (B/W);VP-A17,-	
630	AD64-30843B	CASE-EVF L;-,ABS 94,V0,-,-,-,-,VP-A17	
631	AD63-30538A	COVER-CASE EVF;-,ABS94,HB,-,BLK,-,-,VP-A57	
632	AD90-10803R	ASSY-EVF BOARD;CS97A,PAL	
633	AC90-10012V	ASSY-CRT;CS96(SPORTS),-	
901	AC60-10020A	SCREW-MACHINE;BH,+,M2,X5,FZB,FE,UP,-,-	
905	AC60-10055A	SCREW-TAPPING;BH,+,-,M2,X4,FZB	
WE02	AD39-20825F	LEAD CONNECTOR-ASSY;-,51021,51021,5P,110MM,1061#	

6-8 CVF (VP-A15/VP-A18)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Loc. No	New Part No	Description and Specification	Remark
601	AD73-10014A	RUBBER-EYE CUP;SILICON,-,VP-A57,-	
602	AD61-40376A	STOPPER-LENS;-,ABS94,HB,-,-,VP-A57	
603	AD61-20989A	HOLDER-LENS(COLOR);-,ABS 94,HB,-,-,VP-A57	
604	AC67-12071A	LENS-EVF;PMMA D22.8 SQ,-,-,-,-,-	
605	AD61-11007A	BODY-LENS;-,ABS94,HB,-,BLK,-,-,VP-A57	
606	AD64-10777A	KNOB-SLIDE;-,ABS,HB,-,-,VP-A57	
607	AD98-11219W	UNIT-EVF R (B/W);VP-A17	
608	AD64-30843B	CASE-EVF L;-,ABS 94,V0,-,-,-,-,VP-A17	
609	AD63-30538A	COVER-CASE EVF;-,ABS94,HB,-,BLK,-,-,VP-A57	
611	AD61-20918A	CAP-FOCUS;-,MBR,-,BLK,-,VP-K70	
612	AD90-10806T	ASSY-B/L BOARD;VP-A57,PAL	
613	AD90-10806U	ASSY-CVF BOARD;VP-A57,PAL	
614	AC07-10001L	LCD DISPLAY;LCX005BKB,COLOR,537*222,0.5 IN	
615	AC61-20173A	HOLDER-LIGHT;ABS 94,HB,BLK,-,VP-K75,-	
616	AD61-22009A	HOLDER-LCD;-,ABS 94,HB,-,-,CS97	
901	AC60-10020A	SCREW-MACHINE;BH,+,M2,X5,FZB,FE,UP,-,-	
905	AC60-10055A	SCREW-TAPPING;BH,+,-,M2,X4,FZB	
WE01	AD41-20301B	FPC-CVF;POLYMIDE,T0.18,12P,VP-A57	
WE02	AC39-20017C	LEAD CONNECTOR-ASSY;75MM,51021-03,1.5/1.25MM,CGP	

MEMO

7. Electrical Parts List

Note : 1. According to the change of Part-No system, old and new parts are listed in this service manual together. When ordering a service part, be sure to use the only new part.

Loc. No	New Part No	Description and Specification	Remark
185	**AD59-10407A**	**UNIT-DC/DC BOARD**	
BT901	AD59-10331A	UNIT-BATT TERMINAL;VP-A57,-	
C901	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	
C902	2203-000512	C-CERAMIC,CHIP;2.2UF,+80-20%,16V,Y5V,3216,-,T	
C903	2203-000512	C-CERAMIC,CHIP;2.2UF,+80-20%,16V,Y5V,3216,-,T	
C904	2203-001724	C-CERAMIC,CHIP;4.7UF,+80-20%,16V,Y5V,3216,-,T	
C905	2404-000198	C-TA,CHIP;22UF,20%,6.3V,-,3528,-,TP	
C906	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	
C907	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	
C908	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	
C909	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	
C910	2404-000139	C-TA,CHIP;10UF,20%,6.3V,-,3216,-,TP	
C911	2404-000120	C-TA,CHIP;10UF,20%,10V,-,3528,-,TP	
C912	2404-000139	C-TA,CHIP;10UF,20%,6.3V,-,3216,-,TP	
C915	2404-000120	C-TA,CHIP;10UF,20%,10V,-,3528,-,TP	
C916	2203-000512	C-CERAMIC,CHIP;2.2UF,+80-20%,16V,Y5V,3216,-,T	
C917	2404-000120	C-TA,CHIP;10UF,20%,10V,-,3528,-,TP	
C918	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	
C919	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	
C920	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	
C921	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	
C922	2203-000512	C-CERAMIC,CHIP;2.2UF,+80-20%,16V,Y5V,3216,-,T	
C923	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
C924	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
C925	2203-001559	C-CERAMIC,CHIP;100PF,5%,50V,CH,1608,1.6MM,TP	
C926	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	
C927	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C928	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C929	2203-001636	C-CERAMIC,CHIP;33PF,5%,50V,CH,1608,1.6MM,TP	
C930	2203-000888	C-CERAMIC,CHIP;4.7NF,10%,50V,X7R,1608,-,TP	
C931	2203-001636	C-CERAMIC,CHIP;33PF,5%,50V,CH,1608,1.6MM,TP	
C932	2203-001632	C-CERAMIC,CHIP;330PF,5%,50V,CH,1608,1.6MM,TP	
C933	2203-001640	C-CERAMIC,CHIP;390PF,10%,50V,X7R,1608,1.6MM,T	
C934	2203-002220	C-CERAMIC,CHIP;56PF,0.05,50V,CH,1608,-,TP	
C935	2203-001632	C-CERAMIC,CHIP;330PF,5%,50V,CH,1608,1.6MM,TP	
C936	2203-001640	C-CERAMIC,CHIP;390PF,10%,50V,X7R,1608,1.6MM,T	
C937	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
C938	2203-001636	C-CERAMIC,CHIP;33PF,5%,50V,CH,1608,1.6MM,TP	
C940	2203-000512	C-CERAMIC,CHIP;2.2UF,+80-20%,16V,Y5V,3216,-,T	
C949	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	
C950	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	
CN901	3711-003365	CONNECTOR-HEADER;BOX,36P,2R,0.8MM,ANGLE,SN	
CN902	B6012-0249	CONNECTOR-HOUSING;SD-52365-0891 WHT MOLEX	
D901	0404-000150	DIODE-SCH0TTKY;EC10QS04,40V,1A,SMD,TP	
D902	0407-001013	DIODE-ARRAY;MA160A,80V,100MA,CX2,SOT-143,T	
IC901	1203-000445	IC-PWM CONTROLLER;14641,QFP,48P,-,PLASTIC,13V,69	
L901	2703-000398	INDUCTOR-SMD;10UH,10%,3.2X2.5X2.2MM	
L902	2703-000398	INDUCTOR-SMD;10UH,10%,3.2X2.5X2.2MM	

Loc. No	New Part No	Description and Specification	Remark
L903	2703-001117	INDUCTOR-SMD;10UH,20%,7X7X3.2MM	
L904	2703-000414	INDUCTOR-SMD;22UH,20%,7X7X3.2MM	
L905	2703-000398	INDUCTOR-SMD;10UH,10%,3.2X2.5X2.2MM	
L906	2703-000398	INDUCTOR-SMD;10UH,10%,3.2X2.5X2.2MM	
L907	2703-000398	INDUCTOR-SMD;10UH,10%,3.2X2.5X2.2MM	
L908	2703-000398	INDUCTOR-SMD;10UH,10%,3.2X2.5X2.2MM	
L909	2703-000398	INDUCTOR-SMD;10UH,10%,3.2X2.5X2.2MM	
L910	2703-000398	INDUCTOR-SMD;10UH,10%,3.2X2.5X2.2MM	
L911	2703-000398	INDUCTOR-SMD;10UH,10%,3.2X2.5X2.2MM	
L912	2703-000398	INDUCTOR-SMD;10UH,10%,3.2X2.5X2.2MM	
L913	2703-001194	INDUCTOR-SMD;100UH,20%,7X7X3.2MM	
L914	2703-001194	INDUCTOR-SMD;100UH,20%,7X7X3.2MM	
L915	2703-000398	INDUCTOR-SMD;10UH,10%,3.2X2.5X2.2MM	
L916	2703-000399	INDUCTOR-SMD;100UH,10%,3.2X2.5X2.2MM	
L917	2703-000399	INDUCTOR-SMD;100UH,10%,3.2X2.5X2.2MM	
L918	2703-000398	INDUCTOR-SMD;10UH,10%,3.2X2.5X2.2MM	
L919	2703-000399	INDUCTOR-SMD;100UH,10%,3.2X2.5X2.2MM	
PS901	3601-001036	⚠ FUSE-SMD;125V,2A,FAST ACTING,CERAMIC,3.	
Q901	0502-000432	TR-POWER;2SB1302,PNP,1.3W,SC-62,TP,100-	
Q902	0504-000113	TR-DIGITAL;DTC144EUA,NPN,200MW,47K-47K,SC	
Q903	0501-000172	TR-SMALL SIGNAL;2SB1121,PNP,500MW,PCP,TP,100-5	
Q904	0501-000681	TR-SMALL SIGNAL;FP101,PNP,1.3W,PCP4,TP,140-560	
Q905	0501-000681	TR-SMALL SIGNAL;FP101,PNP,1.3W,PCP4,TP,140-560	
Q906	0501-000172	TR-SMALL SIGNAL;2SB1121,PNP,500MW,PCP,TP,100-5	
Q907	0504-000113	TR-DIGITAL;DTC144EUA,NPN,200MW,47K-47K,SC	
Q908	0504-000107	TR-DIGITAL;DTA144EU,PNP,200MW,47K-47K,SC-	
Q909	0504-000107	TR-DIGITAL;DTA144EU,PNP,200MW,47K-47K,SC-	
Q910	0504-000113	TR-DIGITAL;DTC144EUA,NPN,200MW,47K-47K,SC	
R901	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	
R902	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	
R903	2007-001699	R-CHIP;120KOHM,0.5%,1/16W,DA,TP,1608	
R904	2007-001694	R-CHIP;12KOHM,0.5%,1/16W,DA,TP,1608	
R905	2007-007202	R-CHIP;51KOHM,0.5%,1/16W,DA,TP,1608	
R906	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	
R907	2007-007204	R-CHIP;5.1KOHM,0.5%,1/16W,DA,TP,1608	
R908	2007-000575	R-CHIP;220OHM,5%,1/8W,DA,TP,3216	
R909	2007-000575	R-CHIP;220OHM,5%,1/8W,DA,TP,3216	
R910	2007-000086	R-CHIP;5.6KOHM,5%,1/16W,DA,TP,1608	
R911	2007-000079	R-CHIP;1.8KOHM,5%,1/16W,DA,TP,1608	
R912	2007-000086	R-CHIP;5.6KOHM,5%,1/16W,DA,TP,1608	
R914	2007-000079	R-CHIP;1.8KOHM,5%,1/16W,DA,TP,1608	
R915	2007-000101	R-CHIP;82KOHM,5%,1/16W,DA,TP,1608	
R916	2007-000092	R-CHIP;15KOHM,5%,1/16W,DA,TP,1608	
R917	2007-000134	R-CHIP;33KOHM,5%,1/16W,DA,TP,1608	
R918	2007-000082	R-CHIP;3.3KOHM,5%,1/16W,DA,TP,1608	
R922	2007-000134	R-CHIP;33KOHM,5%,1/16W,DA,TP,1608	
R923	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
R924	2007-001695	R-CHIP;22KOHM,0.5%,1/16W,DA,TP,1608	
R925	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
R926	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
R927	2007-001114	R-CHIP;680KOHM,5%,1/16W,DA,TP,1608	
R929	2007-000086	R-CHIP;5.6KOHM,5%,1/16W,DA,TP,1608	
R930	2007-000086	R-CHIP;5.6KOHM,5%,1/16W,DA,TP,1608	
R931	2007-000082	R-CHIP;3.3KOHM,5%,1/16W,DA,TP,1608	
R932	2007-000081	R-CHIP;2.7KOHM,5%,1/16W,DA,TP,1608	

Loc. No	New Part No	Description and Specification	Remark
R933	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	
R934	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	
R935	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
R936	2007-000129	R-CHIP;27KOHM,5%,1/16W,DA,TP,1608	
R937	2007-000101	R-CHIP;82KOHM,5%,1/16W,DA,TP,1608	
SW901	3404-001031	SWITCH-TACT;15V,20MA,100GF,4.9X4.9X1.5MM,S	
SW902	3408-000296	SWITCH-SLIDE;5V,1A,-,-	
T901	AD26-20120E ⚠	TRANS-CONVERTER;REEL,-,CMS64(480UH):VP-A57	
VR901	2104-000115	VR-SMD;1KOHM,25%,0.15W,TOP	
VR902	2101-001018	VR-ROTARY;50KOHM,30%,0.03W,TOP	

183 ASSY-MAIN BOARD

	AD90-10808X	VP-A12
	AD90-10814Y	VP-A15
	AD90-10804C	VP-A17
	AD90-10815A	VP-A18

SYSTEM CONTROL/SERVO PARTS

C501	2402-000112	C-AL,SMD;10UF,20%,16V,GP,3X5.5,-,TP	
C502	2402-001010	C-AL,SMD;47UF,20%,16V,GP,6.6X6.6X5.4MM,	
C503	2402-001003	C-AL,SMD;22UF,20%,6.3V,-,4.3X4.3X5.8MM,	
C504	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,2012,-,T	
C505	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	
C506	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	
C507	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C508	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	
C509	2203-000888	C-CERAMIC,CHIP;4.7NF,10%,50V,X7R,1608,-,TP	
C510	2203-001609	C-CERAMIC,CHIP;22NF,10%,16V,X7R,1608,1.6MM,TP	
C511	2203-001609	C-CERAMIC,CHIP;22NF,10%,16V,X7R,1608,1.6MM,TP	
C512	2203-001559	C-CERAMIC,CHIP;100PF,5%,50V,CH,1608,1.6MM,TP	
C513	2203-001559	C-CERAMIC,CHIP;100PF,5%,50V,CH,1608,1.6MM,TP	
C514	2203-002218	C-CERAMIC,CHIP;47NF,0.1,16V,X7R,1608,-,TP	
C515	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	
C516	2203-002218	C-CERAMIC,CHIP;47NF,0.1,16V,X7R,1608,-,TP	
C517	2203-000491	C-CERAMIC,CHIP;2.2NF,10%,50V,X7R,1608,-,TP	
C518	2203-001693	C-CERAMIC,CHIP;820PF,10%,50V,X7R,1608,1.6MM,T	
C519	2203-001640	C-CERAMIC,CHIP;390PF,10%,50V,X7R,1608,1.6MM,T	
C520	2203-001658	C-CERAMIC,CHIP;47PF,5%,50V,CH,1608,1.6MM,TP	
C524	2203-002218	C-CERAMIC,CHIP;47NF,0.1,16V,X7R,1608,-,TP	
C525	2203-000715	C-CERAMIC,CHIP;3.3NF,10%,50V,X7R,1608,-,TP	
C526	2203-000715	C-CERAMIC,CHIP;3.3NF,10%,50V,X7R,1608,-,TP	
C527	2203-000715	C-CERAMIC,CHIP;3.3NF,10%,50V,X7R,1608,-,TP	
C528	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C529	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C530	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
C531	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
C532	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
C533	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
C534	2203-002218	C-CERAMIC,CHIP;47NF,0.1,16V,X7R,1608,-,TP	
C535	2404-000151	C-TA,CHIP;1UF,20%,16V,-,3216,-,TP	
C536	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C537	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	
C538	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	
C539	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	
C540	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,2012,-,T	

Loc. No	New Part No	Description and Specification	Remark
C541	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,2012,-,T	
C542	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,2012,-,T	
C543	2203-000440	C-CERAMIC,CHIP;1NF,10%,50V,X7R,1608,-,TP	
C544	2203-001598	C-CERAMIC,CHIP;2.2UF,+80-20%,16V,Y5V,2012,-,T	
C545	2203-000440	C-CERAMIC,CHIP;1NF,10%,50V,X7R,1608,-,TP	
C546	2203-000440	C-CERAMIC,CHIP;1NF,10%,50V,X7R,1608,-,TP	
C547	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	
C548	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C601	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	
C602	2404-000112	C-TA,CHIP;100UF,20%,6.3V,-,7343,-,TP	
C603	2404-000259	C-TA,CHIP;47UF,20%,6.3V,-,6032,-,TP	
C604	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
C605	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	
C606	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	
C607	2404-000232	C-TA,CHIP;4.7UF,20%,10V,-,3216,-,TP	
C608	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	
C609	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
C610	2203-000440	C-CERAMIC,CHIP;1NF,10%,50V,X7R,1608,-,TP	
C611	2203-001103	C-CERAMIC,CHIP;6.8NF,10%,50V,X7R,1608,-,TP	
C612	2203-000626	C-CERAMIC,CHIP;22PF,5%,50V,CH,1608,-,TP	
C613	2203-000626	C-CERAMIC,CHIP;22PF,5%,50V,CH,1608,-,TP	
C614	2203-000384	C-CERAMIC,CHIP;15PF,5%,50V,CH,1608,-,TP	
C615	2203-000384	C-CERAMIC,CHIP;15PF,5%,50V,CH,1608,-,TP	
C616	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C617	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C618	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C619	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C620	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C621	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C622	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	
C623	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
C624	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C625	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
C626	2203-000440	C-CERAMIC,CHIP;1NF,10%,50V,X7R,1608,-,TP	
C627	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
C628	2203-001103	C-CERAMIC,CHIP;6.8NF,10%,50V,X7R,1608,-,TP	
C629	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CN501	3710-000397	CONNECTOR-SOCKET;36P,2R,0.8MM,STRAIGHT,SN	
CN502	3708-000403	CONNECTOR-FPC/FC/PIC;22P,0.5MM,STRAIGHT,SN	
CN503	3711-002130	CONNECTOR-HEADER;BOX,48P,2R,0.8,ANGLE,SN	
CTP01	3710-000396	CONNECTOR-SOCKET;30P,2R,0.8MM,STRAIGHT,SN	
IC501	AC14-12007Q	IC-LOGIC;BA6285FS,SOP,-	
IC502	AC14-12005J	IC-LOGIC;KA8322,QFP,-	
IC503	1003-001072	IC-MOTOR DRIVER;LB1888V,SOP,30P,220MIL,TRIPLE,	
IC504	1003-001073	IC-MOTOR DRIVER;LB1886V,SOP,24P,22MIL,TRIPLE,1	
IC601	AD09-10450U	IC-MCU;CXP87248A-123Q,100P,QFP,VP-A17	
IC602	1203-001123	IC-VOLTAGE REGULATOR;8420,SOP,8P,216MIL,PLASTIC,	
IC603	AC14-12012T	IC-OP AMP;TA75S01F(TE85L),QFP,-	
IC604	AC14-12012T	IC-OP AMP;TA75S01F(TE85L),QFP,-	
IC605	1102-001043	IC-EPROM;29194,1KX16BIT,SOP,8P,150MIL,2	
L501	2703-000388	INDUCTOR-SMD;470UH,5%,3.2X2.5X2.2MM	
L601	2703-000399	INDUCTOR-SMD;100UH,10%,3.2X2.5X2.2MM	
L602	2703-000399	INDUCTOR-SMD;100UH,10%,3.2X2.5X2.2MM	
L603	2703-000399	INDUCTOR-SMD;100UH,10%,3.2X2.5X2.2MM	
Q501	0504-000110	TR-DIGITAL;DTC114,NPN,200MW,10K-10K,SC-70	

Loc. No	New Part No	Description and Specification	Remark
Q502	0504-000105	TR-DIGITAL;DTA114EU,PNP,200MW,10K-10K,SC-	
Q503	0506-000150	TR-ARRAY;UMX2N,NPN,2,50V,40V,100MA,300M	
Q601	0501-000218	TR-SMALL SIGNAL;2SC4081,NPN,200MW,SC-70,TP,180	
R501	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
R502	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
R503	2007-000092	R-CHIP;15KOHM,5%,1/16W,DA,TP,1608	
R504	2007-000091	R-CHIP;12KOHM,5%,1/16W,DA,TP,1608	
R505	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	
R506	2007-000065	R-CHIP;2.2MOHM,5%,1/16W,DA,TP,1608	
R507	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
R508	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	
R509	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	
R510	2007-000098	R-CHIP;56KOHM,5%,1/16W,DA,TP,1608	
R511	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	
R512	2007-001114	R-CHIP;680KOHM,5%,1/16W,DA,TP,1608	
R513	2007-000123	R-CHIP;1.5KOHM,5%,1/16W,DA,TP,1608	
R514	2007-000123	R-CHIP;1.5KOHM,5%,1/16W,DA,TP,1608	
R515	2007-000092	R-CHIP;15KOHM,5%,1/16W,DA,TP,1608	
R516	2007-000084	R-CHIP;4.7KOHM,5%,1/16W,DA,TP,1608	
R517	2007-000123	R-CHIP;1.5KOHM,5%,1/16W,DA,TP,1608	
R518	2007-000076	R-CHIP;330OHM,5%,1/16W,DA,TP,1608	
R519	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
R520	2007-000458	R-CHIP;18KOHM,5%,1/16W,DA,TP,1608	
R521	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	
R522	2007-000122	R-CHIP;1.2KOHM,5%,1/16W,DA,TP,1608	
R523	2007-000123	R-CHIP;1.5KOHM,5%,1/16W,DA,TP,1608	
R524	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	
R528	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	
R529	2007-000106	R-CHIP;220KOHM,5%,1/16W,DA,TP,1608	
R530	2007-000130	R-CHIP;39KOHM,5%,1/16W,DA,TP,1608	
R531	2007-000134	R-CHIP;33KOHM,5%,1/16W,DA,TP,1608	
R532	2007-000483	R-CHIP;1OHM,5%,1/10W,DA,TP,2012	
R533	2007-000483	R-CHIP;1OHM,5%,1/10W,DA,TP,2012	
R534	2007-000134	R-CHIP;33KOHM,5%,1/16W,DA,TP,1608	
R537	2007-000130	R-CHIP;39KOHM,5%,1/16W,DA,TP,1608	
R538	2007-000503	R-CHIP;2.2OHM,5%,1/16W,DA,TP,1608	
R539	2007-000503	R-CHIP;2.2OHM,5%,1/16W,DA,TP,1608	
R540	2007-000503	R-CHIP;2.2OHM,5%,1/16W,DA,TP,1608	
R541	2007-000077	R-CHIP;470OHM,5%,1/16W,DA,TP,1608	
R543	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
R544	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
R545	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	
R546	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	
R547	2007-000079	R-CHIP;1.8KOHM,5%,1/16W,DA,TP,1608	
R548	2007-000081	R-CHIP;2.7KOHM,5%,1/16W,DA,TP,1608	
R549	2007-000119	R-CHIP;560OHM,5%,1/16W,DA,TP,1608	
R550	2007-000134	R-CHIP;33KOHM,5%,1/16W,DA,TP,1608	
R551	2007-000458	R-CHIP;18KOHM,5%,1/16W,DA,TP,1608	
R552	2007-000075	R-CHIP;220OHM,5%,1/16W,DA,TP,1608	
R553	2007-000124	R-CHIP;2.2KOHM,5%,1/16W,DA,TP,1608	
R601	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
R602	2007-000267	R-CHIP;1.8KOHM,5%,1/10W,DA,TP,2012	
R603	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
R604	2007-001700	R-CHIP;330KOHM,0.5%,1/16W,DA,TP,1608	
R605	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	

Loc. No	New Part No	Description and Specification	Remark
R606	2007-001693	R-CHIP;15KOHM,0.5%,1/16W,DA,TP,1608	
R607	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
R608	2007-001700	R-CHIP;330KOHM,0.5%,1/16W,DA,TP,1608	
R609	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
R610	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
R611	2007-000106	R-CHIP;220KOHM,5%,1/16W,DA,TP,1608	
R613	2007-000106	R-CHIP;220KOHM,5%,1/16W,DA,TP,1608	
R614	2007-000106	R-CHIP;220KOHM,5%,1/16W,DA,TP,1608	
R615	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
R616	2007-000106	R-CHIP;220KOHM,5%,1/16W,DA,TP,1608	
R617	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
R618	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
R619	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
R620	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	
R621	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
R622	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	
R623	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	
R624	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	
R625	2007-000293	R-CHIP;100OHM,5%,1/8W,DA,TP,3216	
R626	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
R627	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
R628	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
R629	2007-000583	R-CHIP;22KOHM,1%,1/16W,DA,TP,1608	
R630	2007-000583	R-CHIP;22KOHM,1%,1/16W,DA,TP,1608	
R631	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
R632	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
R633	2007-000123	R-CHIP;1.5KOHM,5%,1/16W,DA,TP,1608	
R634	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
R635	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
R636	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
R637	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
R638	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
R639	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
R641	2007-001643	R-CHIP;100KOHM,0.5%,1/16W,DA,TP,1608	
R642	2007-001644	R-CHIP;10KOHM,0.5%,1/16W,DA,TP,1608	
R643	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
R644	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
R645	2007-000077	R-CHIP;470OHM,5%,1/16W,DA,TP,1608	
R646	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
R647	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	
R649	2007-000074	R-CHIP;100OHM,5%,1/16W,DA,TP,1608	
R650	2007-000074	R-CHIP;100OHM,5%,1/16W,DA,TP,1608	
R651	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
R652	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
R653	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
R654	2007-000134	R-CHIP;33KOHM,5%,1/16W,DA,TP,1608	
R655	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	
R656	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
R657	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
R658	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
R659	2007-000082	R-CHIP;3.3KOHM,5%,1/16W,DA,TP,1608	
R660	2007-000087	R-CHIP;6.8KOHM,5%,1/16W,DA,TP,1608	
R661	2007-000065	R-CHIP;2.2MOHM,5%,1/16W,DA,TP,1608	
R664	2007-000106	R-CHIP;220KOHM,5%,1/16W,DA,TP,1608	
R665	2007-001643	R-CHIP;100KOHM,0.5%,1/16W,DA,TP,1608	

Loc. No	New Part No	Description and Specification	Remark
R666	2007-001643	R-CHIP;100KOHM,0.5%,1/16W,DA,TP,1608	
R667	2007-001643	R-CHIP;100KOHM,0.5%,1/16W,DA,TP,1608	
R668	2007-001643	R-CHIP;100KOHM,0.5%,1/16W,DA,TP,1608	
R670	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
R671	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
R672	2007-000087	R-CHIP;6.8KOHM,5%,1/16W,DA,TP,1608	
R673	2007-000082	R-CHIP;3.3KOHM,5%,1/16W,DA,TP,1608	
R674	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
R675	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
R676	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
R677	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	
R678	2007-000076	R-CHIP;330OHM,5%,1/16W,DA,TP,1608	
SW601	3408-000297	SWITCH-SLIDE;5V,1A,-,-	
XT601	2801-001449	CRYSTAL-SMD;32.768KHZ,20PPM,28-AAW,12.5PF,	
XT602	2801-003239	CRYSTAL-SMD;11.71875MHZ,50PPM,28-ABL,13PF,	
VIDEO PARTS			
C101	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C102	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
C103	2203-001559	C-CERAMIC,CHIP;100PF,5%,50V,CH,1608,1.6MM,TP	
C104	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C105	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C106	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
C107	2203-001559	C-CERAMIC,CHIP;100PF,5%,50V,CH,1608,1.6MM,TP	
C108	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C109	2404-000198	C-TA,CHIP;22UF,20%,6.3V,-,3528,-,TP	
C110	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C111	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C112	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C113	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C114	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C115	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C116	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C117	2203-001609	C-CERAMIC,CHIP;22NF,10%,16V,X7R,1608,1.6MM,TP	
C118	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
C119	2203-001559	C-CERAMIC,CHIP;100PF,5%,50V,CH,1608,1.6MM,TP	
C120	2203-000357	C-CERAMIC,CHIP;150PF,5%,50V,CH,1608,-,TP	
C121	2203-001686	C-CERAMIC,CHIP;75PF,5%,50V,CH,1608,1.6MM,TP	
C123	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C124	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C125	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C151	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C152	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C153	2203-002220	C-CERAMIC,CHIP;56PF,0.05,50V,CH,1608,-,TP	
C154	2203-001676	C-CERAMIC,CHIP;62PF,5%,50V,CH,1608,1.6MM,TP	
C155	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C156	2203-000491	C-CERAMIC,CHIP;2.2NF,10%,50V,X7R,1608,-,TP	
C157	2203-001616	C-CERAMIC,CHIP;270PF,5%,50V,CH,1608,1.6MM,TP	
C158	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C159	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C160	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	
C161	2203-000626	C-CERAMIC,CHIP;22PF,5%,50V,CH,1608,-,TP	
C162	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C163	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C164	2203-000626	C-CERAMIC,CHIP;22PF,5%,50V,CH,1608,-,TP	

Loc. No	New Part No	Description and Specification	Remark
C165	2203-001588	C-CERAMIC,CHIP;18PF,5%,50V,CH,1608,1.6MM,TP	
C166	2404-000139	C-TA,CHIP;10UF,20%,6.3V,-,3216,-,TP	
C167	2404-000198	C-TA,CHIP;22UF,20%,6.3V,-,3528,-,TP	
C171	2007-000082	R-CHIP;3.3KOHM,5%,1/16W,DA,TP,1608	
C201	2404-000139	C-TA,CHIP;10UF,20%,6.3V,-,3216,-,TP	
C202	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	
C203	2404-000179	C-TA,CHIP;220NF,20%,35V,-,3216,-,TP	
C204	2402-001008	C-AL,SMD;220UF,20%,4V,-,6.6X6.6X5.4MM,2	
C205	2404-000232	C-TA,CHIP;4.7UF,20%,10V,-,3216,-,TP	
C206	2404-000198	C-TA,CHIP;22UF,20%,6.3V,-,3528,-,TP	
C207	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C208	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
C209	2404-000139	C-TA,CHIP;10UF,20%,6.3V,-,3216,-,TP	
C210	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C211	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C212	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C213	2404-000151	C-TA,CHIP;1UF,20%,16V,-,3216,-,TP	
C214	2203-001103	C-CERAMIC,CHIP;6.8NF,10%,50V,X7R,1608,-,TP	
C215	2203-001609	C-CERAMIC,CHIP;22NF,10%,16V,X7R,1608,1.6MM,TP	
C216	2404-000261	C-TA,CHIP;680NF,20%,20V,-,3216,-,TP	
C217	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C218	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	
C220	2404-000139	C-TA,CHIP;10UF,20%,6.3V,-,3216,-,TP	
C221	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C223	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C224	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C225	2203-001640	C-CERAMIC,CHIP;390PF,10%,50V,X7R,1608,1.6MM,T	
C226	2203-001632	C-CERAMIC,CHIP;330PF,5%,50V,CH,1608,1.6MM,TP	
C227	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	
C228	2203-001607	C-CERAMIC,CHIP;220PF,5%,50V,CH,1608,1.6MM,TP	
C229	2203-001607	C-CERAMIC,CHIP;220PF,5%,50V,CH,1608,1.6MM,TP	
C230	2404-000198	C-TA,CHIP;22UF,20%,6.3V,-,3528,-,TP	
C232	2404-000139	C-TA,CHIP;10UF,20%,6.3V,-,3216,-,TP	
C233	2404-000232	C-TA,CHIP;4.7UF,20%,10V,-,3216,-,TP	
C234	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C235	2404-000139	C-TA,CHIP;10UF,20%,6.3V,-,3216,-,TP	
C236	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C237	2404-000139	C-TA,CHIP;10UF,20%,6.3V,-,3216,-,TP	
C238	2404-000198	C-TA,CHIP;22UF,20%,6.3V,-,3528,-,TP	
C239	2203-001585	C-CERAMIC,CHIP;180PF,5%,50V,CH,1608,1.6MM,TP	
C240	2404-000139	C-TA,CHIP;10UF,20%,6.3V,-,3216,-,TP	
C241	2203-001676	C-CERAMIC,CHIP;62PF,5%,50V,CH,1608,1.6MM,TP	
C242	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C243	2404-000139	C-TA,CHIP;10UF,20%,6.3V,-,3216,-,TP	
C244	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C245	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C246	2404-000175	C-TA,CHIP;2.2UF,20%,6.3V,-,3216,1.1MM,TP	
C247	2404-000139	C-TA,CHIP;10UF,20%,6.3V,-,3216,-,TP	
C248	2404-000175	C-TA,CHIP;2.2UF,20%,6.3V,-,3216,1.1MM,TP	
C249	2404-000139	C-TA,CHIP;10UF,20%,6.3V,-,3216,-,TP	
C250	2404-000139	C-TA,CHIP;10UF,20%,6.3V,-,3216,-,TP	
C251	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	
C252	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	
C253	2404-000139	C-TA,CHIP;10UF,20%,6.3V,-,3216,-,TP	
C254	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	

Loc. No	New Part No	Description and Specification	Remark
C255	2404-000198	C-TA,CHIP;22UF,20%,6.3V,-,3528,-,TP	
C257	2203-001657	C-CERAMIC,CHIP;47NF,+80-20%,16V,Y5V,1608,1.6M	
C258	2203-001658	C-CERAMIC,CHIP;47PF,5%,50V,CH,1608,1.6MM,TP	
C259	2203-001656	C-CERAMIC,CHIP;470PF,5%,50V,CH,1608,1.6MM,TP	
C261	2203-000626	C-CERAMIC,CHIP;22PF,5%,50V,CH,1608,-,TP	
C271	2203-001658	C-CERAMIC,CHIP;47PF,5%,50V,CH,1608,1.6MM,TP	
C272	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
C273	2203-000357	C-CERAMIC,CHIP;150PF,5%,50V,CH,1608,-,TP	
C274	2203-001568	C-CERAMIC,CHIP;110PF,5%,50V,CH,1608,1.6MM,TP	
C275	2203-001588	C-CERAMIC,CHIP;18PF,5%,50V,CH,1608,1.6MM,TP	
C276	2203-000851	C-CERAMIC,CHIP;39PF,5%,50V,CH,1608,-,TP	
C278	2404-000139	C-TA,CHIP;10UF,20%,6.3V,-,3216,-,TP	
C301	2404-000139	C-TA,CHIP;10UF,20%,6.3V,-,3216,-,TP	
C302	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
C304	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	
C306	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
C307	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	
C308	2203-000440	C-CERAMIC,CHIP;1NF,10%,50V,X7R,1608,-,TP	
C309	2203-000440	C-CERAMIC,CHIP;1NF,10%,50V,X7R,1608,-,TP	
C310	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	
C311	2203-001618	C-CERAMIC,CHIP;27PF,5%,50V,CH,1608,1.6MM,TP	
C312	2203-000626	C-CERAMIC,CHIP;22PF,5%,50V,CH,1608,-,TP	
C313	2203-001658	C-CERAMIC,CHIP;47PF,5%,50V,CH,1608,1.6MM,TP	
C314	2203-001559	C-CERAMIC,CHIP;100PF,5%,50V,CH,1608,1.6MM,TP	
C315	2203-000626	C-CERAMIC,CHIP;22PF,5%,50V,CH,1608,-,TP	
C316	2203-001658	C-CERAMIC,CHIP;47PF,5%,50V,CH,1608,1.6MM,TP	
C317	2203-001683	C-CERAMIC,CHIP;68PF,5%,50V,CH,1608,1.6MM,TP	
C318	2203-001658	C-CERAMIC,CHIP;47PF,5%,50V,CH,1608,1.6MM,TP	
C319	2203-001567	C-CERAMIC,CHIP;10PF,0.5PF,50V,CH,1608,1.6MM,T	
C320	2203-001567	C-CERAMIC,CHIP;10PF,0.5PF,50V,CH,1608,1.6MM,T	
C321	2203-001588	C-CERAMIC,CHIP;18PF,5%,50V,CH,1608,1.6MM,TP	
C322	2203-001618	C-CERAMIC,CHIP;27PF,5%,50V,CH,1608,1.6MM,TP	
C323	2203-001559	C-CERAMIC,CHIP;100PF,5%,50V,CH,1608,1.6MM,TP	
C324	2203-001618	C-CERAMIC,CHIP;27PF,5%,50V,CH,1608,1.6MM,TP	
C325	2203-000357	C-CERAMIC,CHIP;150PF,5%,50V,CH,1608,-,TP	
C351	2404-000139	C-TA,CHIP;10UF,20%,6.3V,-,3216,-,TP	
C352	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C353	2203-001568	C-CERAMIC,CHIP;110PF,5%,50V,CH,1608,1.6MM,TP	
C354	2404-000232	C-TA,CHIP;4.7UF,20%,10V,-,3216,-,TP	
C355	2203-000440	C-CERAMIC,CHIP;1NF,10%,50V,X7R,1608,-,TP	
C356	2203-000440	C-CERAMIC,CHIP;1NF,10%,50V,X7R,1608,-,TP	
C357	2203-001640	C-CERAMIC,CHIP;390PF,10%,50V,X7R,1608,1.6MM,T	
C358	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	
C359	2203-000440	C-CERAMIC,CHIP;1NF,10%,50V,X7R,1608,-,TP	
C360	2203-001402	C-CERAMIC,CHIP;220NF,+80-20%,16V,Y5V,1608,1.6	
C361	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C362	2203-001567	C-CERAMIC,CHIP;10PF,0.5PF,50V,CH,1608,1.6MM,T	
C363	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C381	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	
C401	2404-000139	C-TA,CHIP;10UF,20%,6.3V,-,3216,-,TP	
C402	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C403	2203-001567	C-CERAMIC,CHIP;10PF,0.5PF,50V,CH,1608,1.6MM,T	
C404	2203-001699	C-CERAMIC,CHIP;8PF,0.5PF,50V,CH,1608,1.6MM,TP	
C405	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C406	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	

Loc. No	New Part No	Description and Specification	Remark
C407	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C408	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CN101	AC41-22065A	FPC-CONNECTOR;00-6200-511-130-000,-,-,-	
CN301	3708-001140	CONNECTOR-FPC/FC/PIC;12P,0.8MM,SMD-A,SN	
CN302	3711-003115	CONNECTOR-HEADER;BOX,12P,2R,0.8MM,SMD-S,AU20U	
D151	0407-000145	DIODE-ARRAY;DCC010,-80V,100MA,C2-3,SOT-23,	
D201	0407-000115	DIODE-ARRAY;DAN202U,80V,100MA,CA2-3,SC-70,	
D202	0401-000170	DIODE-SWITCHING;MA110,40V,100MA,-,3NS,SM2	
D203	0407-000102	DIODE-ARRAY;DA204U,20V,100MA,C2-3,SC-70,TP	
D351	0401-000170	DIODE-SWITCHING;MA110,40V,100MA,-,3NS,SM2	
D381	0401-000170	DIODE-SWITCHING;MA110,40V,100MA,-,3NS,SM2	
D401	0407-000115	DIODE-ARRAY;DAN202U,80V,100MA,CA2-3,SC-70,	
D402	0401-000170	DIODE-SWITCHING;MA110,40V,100MA,-,3NS,SM2	
D404	0401-000170	DIODE-SWITCHING;MA110,40V,100MA,-,3NS,SM2	
IC101	1201-001087	IC-PREAMP;52369,QFP,48P,-,SINGLE,-,PLAST	
IC201	AC14-12012G	IC;CXA1700R,QFP,-	
IC202	1201-001083	IC-AGC AMP;1211,SOP,8P,225MIL,DUAL,5DB,PL	
IC302	1209-001044	IC-DELAY LINE;CXL5517N,SOP,20P,173MIL,PLASTI	
IC351	AC14-12012S	IC;M52358VP,SOP,-	
IC401	1204-001146	IC-OSD PROCESSOR;BU6251FV,SOP,20P,240MIL,PLASTI	
IC402	AC14-12015G	IC-LINEAR;NJM2249V,SSOP,TAPE	
IC431	1002-001034	IC-D/A CONVERTER;M62352P,8BIT,SOP,20P,-,+-1.5LS	
L101	2703-000399	INDUCTOR-SMD;100UH,10%,3.2X2.5X2.2MM	
L102	2703-000397	INDUCTOR-SMD;33UH,10%,2.5X2X1.8MM	
L103	2703-000363	INDUCTOR-SMD;10UH,5%,2.5X2X1.8MM	
L151	2703-000381	INDUCTOR-SMD;180UH,5%,3.2X2.5X2.2MM	
L152	2703-000381	INDUCTOR-SMD;180UH,5%,3.2X2.5X2.2MM	
L153	2703-000388	INDUCTOR-SMD;470UH,5%,3.2X2.5X2.2MM	
L154	2703-000381	INDUCTOR-SMD;180UH,5%,3.2X2.5X2.2MM	
L155	2703-000367	INDUCTOR-SMD;33UH,5%,2.5X2X1.8MM	
L156	2703-000363	INDUCTOR-SMD;10UH,5%,2.5X2X1.8MM	
L201	2703-000403	INDUCTOR-SMD;22UH,10%,3.2X2.5X2.2MM	
L202	2703-000403	INDUCTOR-SMD;22UH,10%,3.2X2.5X2.2MM	
L205	2703-000366	INDUCTOR-SMD;22UH,5%,2.5X2X1.8MM	
L206	2703-000397	INDUCTOR-SMD;33UH,10%,2.5X2X1.8MM	
L208	2703-000366	INDUCTOR-SMD;22UH,5%,2.5X2X1.8MM	
L271	2703-000376	INDUCTOR-SMD;8.2UH,5%,2.5X2X1.8MM	
L272	2703-000385	INDUCTOR-SMD;330UH,5%,3.2X2.5X2.2MM	
L273	2703-000364	INDUCTOR-SMD;100UH,5%,2.5X2X1.8MM	
L301	2703-000397	INDUCTOR-SMD;33UH,10%,2.5X2X1.8MM	
L302	2703-000397	INDUCTOR-SMD;33UH,10%,2.5X2X1.8MM	
L303	2703-000371	INDUCTOR-SMD;4.7UH,5%,2.5X2X1.8MM	
L304	2703-000371	INDUCTOR-SMD;4.7UH,5%,2.5X2X1.8MM	
L305	2703-000367	INDUCTOR-SMD;33UH,5%,2.5X2X1.8MM	
L306	2703-000367	INDUCTOR-SMD;33UH,5%,2.5X2X1.8MM	
L307	2703-000363	INDUCTOR-SMD;10UH,5%,2.5X2X1.8MM	
L351	2703-000397	INDUCTOR-SMD;33UH,10%,2.5X2X1.8MM	
L401	2703-000397	INDUCTOR-SMD;33UH,10%,2.5X2X1.8MM	
L402	2703-000226	INDUCTOR-SMD;56UH,5%,2.5X3.2X2.2MM	
L431	2703-000397	INDUCTOR-SMD;33UH,10%,2.5X2X1.8MM	
Q101	0501-000218	TR-SMALL SIGNAL;2SC4081,NPN,200MW,SC-70,TP,180	
Q102	0506-000148	TR-ARRAY;UMT2N,PNP,2,-50V,-40V,-100MA,3	
Q151	0501-000218	TR-SMALL SIGNAL;2SC4081,NPN,200MW,SC-70,TP,180	
Q152	0506-000151	TR-ARRAY;UMZ1N,NPN/PNP,1,50V,40V,100MA,	
Q153	0501-000218	TR-SMALL SIGNAL;2SC4081,NPN,200MW,SC-70,TP,180	

Loc. No	New Part No	Description and Specification	Remark
Q154	0501-000207	TR-SMALL SIGNAL;2SC3142,NPN,150MW,SOT-23,TP,40	
Q155	0504-000107	TR-DIGITAL;DTA144EU,PNP,200MW,47K-47K,SC-	
Q156	0506-000150	TR-ARRAY;UMX2N,NPN,2,50V,40V,100MA,300M	
Q202	0506-000151	TR-ARRAY;UMZ1N,NPN/PNP,1,50V,40V,100MA,	
Q203	0506-000150	TR-ARRAY;UMX2N,NPN,2,50V,40V,100MA,300M	
Q205	0501-000218	TR-SMALL SIGNAL;2SC4081,NPN,200MW,SC-70,TP,180	
Q207	0506-000150	TR-ARRAY;UMX2N,NPN,2,50V,40V,100MA,300M	
Q208	0506-000150	TR-ARRAY;UMX2N,NPN,2,50V,40V,100MA,300M	
Q209	0504-000113	TR-DIGITAL;DTC144EUA,NPN,200MW,47K-47K,SC	
Q210	0501-000162	TR-SMALL SIGNAL;2SA1576,PNP,200MW,SC-70,TP,180	
Q211	0501-000218	TR-SMALL SIGNAL;2SC4081,NPN,200MW,SC-70,TP,180	
Q212	0504-000110	TR-DIGITAL;DTC114,NPN,200MW,10K-10K,SC-70	
Q213	0501-000218	TR-SMALL SIGNAL;2SC4081,NPN,200MW,SC-70,TP,180	
Q214	0501-000218	TR-SMALL SIGNAL;2SC4081,NPN,200MW,SC-70,TP,180	
Q215	0506-000151	TR-ARRAY;UMZ1N,NPN/PNP,1,50V,40V,100MA,	
Q216	0501-000162	TR-SMALL SIGNAL;2SA1576,PNP,200MW,SC-70,TP,180	
Q217	0504-000113	TR-DIGITAL;DTC144EUA,NPN,200MW,47K-47K,SC	
Q218	0504-000177	TR-DIGITAL;DTC143EUA,NPN,200MW,4.7K-4.7K,	
Q219	0504-000105	TR-DIGITAL;DTA114EU,PNP,200MW,10K-10K,SC-	
Q220	0504-000113	TR-DIGITAL;DTC144EUA,NPN,200MW,47K-47K,SC	
Q222	0504-000113	TR-DIGITAL;DTC144EUA,NPN,200MW,47K-47K,SC	
Q271	0506-000150	TR-ARRAY;UMX2N,NPN,2,50V,40V,100MA,300M	
Q301	0501-000162	TR-SMALL SIGNAL;2SA1576,PNP,200MW,SC-70,TP,180	
Q302	0501-000218	TR-SMALL SIGNAL;2SC4081,NPN,200MW,SC-70,TP,180	
Q303	0504-000107	TR-DIGITAL;DTA144EU,PNP,200MW,47K-47K,SC-	
Q304	0506-000150	TR-ARRAY;UMX2N,NPN,2,50V,40V,100MA,300M	
Q305	0506-000150	TR-ARRAY;UMX2N,NPN,2,50V,40V,100MA,300M	
Q306	0506-000150	TR-ARRAY;UMX2N,NPN,2,50V,40V,100MA,300M	
Q351	0506-000146	TR-ARRAY;UMH6N,NPN,2,150MW,UM6,TP,68	
Q352	0504-000107	TR-DIGITAL;DTA144EU,PNP,200MW,47K-47K,SC-	
Q353	0506-000146	TR-ARRAY;UMH6N,NPN,2,150MW,UM6,TP,68	
Q354	0501-000218	TR-SMALL SIGNAL;2SC4081,NPN,200MW,SC-70,TP,180	
Q355	0504-000107	TR-DIGITAL;DTA144EU,PNP,200MW,47K-47K,SC-	
Q381	0501-000162	TR-SMALL SIGNAL;2SA1576,PNP,200MW,SC-70,TP,180	
Q382	0504-000113	TR-DIGITAL;DTC144EUA,NPN,200MW,47K-47K,SC	
R101	2007-000450	R-CHIP;180OHM,5%,1/16W,DA,TP,1608	
R102	2007-000118	R-CHIP;390OHM,5%,1/16W,DA,TP,1608	
R103	2007-000076	R-CHIP;330OHM,5%,1/16W,DA,TP,1608	
R104	2007-000450	R-CHIP;180OHM,5%,1/16W,DA,TP,1608	
R105	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	
R106	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
R107	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
R108	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
R109	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
R114	2007-000084	R-CHIP;4.7KOHM,5%,1/16W,DA,TP,1608	
R115	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
R116	2007-000079	R-CHIP;1.8KOHM,5%,1/16W,DA,TP,1608	
R117	2007-000099	R-CHIP;62KOHM,5%,1/16W,DA,TP,1608	
R118	2007-000124	R-CHIP;2.2KOHM,5%,1/16W,DA,TP,1608	
R119	2007-000082	R-CHIP;3.3KOHM,5%,1/16W,DA,TP,1608	
R120	2007-000071	R-CHIP;22OHM,5%,1/16W,DA,TP,1608	
R121	2007-000643	R-CHIP;270OHM,5%,1/16W,DA,TP,1608	
R122	2007-000075	R-CHIP;220OHM,5%,1/16W,DA,TP,1608	
R123	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	
R124	2007-000134	R-CHIP;33KOHM,5%,1/16W,DA,TP,1608	

Loc. No	New Part No	Description and Specification	Remark
R125	2007-000084	R-CHIP;4.7KOHM,5%,1/16W,DA,TP,1608	
R126	2007-000120	R-CHIP;680OHM,5%,1/16W,DA,TP,1608	
R151	2007-000134	R-CHIP;33KOHM,5%,1/16W,DA,TP,1608	
R152	2007-000092	R-CHIP;15KOHM,5%,1/16W,DA,TP,1608	
R153	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
R154	2007-000077	R-CHIP;470OHM,5%,1/16W,DA,TP,1608	
R155	2007-000076	R-CHIP;330OHM,5%,1/16W,DA,TP,1608	
R156	2007-000098	R-CHIP;56KOHM,5%,1/16W,DA,TP,1608	
R157	2007-000082	R-CHIP;3.3KOHM,5%,1/16W,DA,TP,1608	
R158	2007-000084	R-CHIP;4.7KOHM,5%,1/16W,DA,TP,1608	
R159	2007-000119	R-CHIP;560OHM,5%,1/16W,DA,TP,1608	
R160	2007-000079	R-CHIP;1.8KOHM,5%,1/16W,DA,TP,1608	
R161	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
R162	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
R163	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	
R164	2007-000120	R-CHIP;680OHM,5%,1/16W,DA,TP,1608	
R165	2007-000450	R-CHIP;180OHM,5%,1/16W,DA,TP,1608	
R166	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
R167	2007-000077	R-CHIP;470OHM,5%,1/16W,DA,TP,1608	
R168	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
R169	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	
R170	2007-000643	R-CHIP;270OHM,5%,1/16W,DA,TP,1608	
R172	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
R173	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	
R174	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
R175	2007-000124	R-CHIP;2.2KOHM,5%,1/16W,DA,TP,1608	
R176	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	
R177	2007-000079	R-CHIP;1.8KOHM,5%,1/16W,DA,TP,1608	
R201	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
R202	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
R203	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
R204	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
R205	2007-000839	R-CHIP;39OHM,5%,1/16W,DA,TP,1608	
R206	2007-000839	R-CHIP;39OHM,5%,1/16W,DA,TP,1608	
R207	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	
R208	2007-000123	R-CHIP;1.5KOHM,5%,1/16W,DA,TP,1608	
R209	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
R210	2007-000120	R-CHIP;680OHM,5%,1/16W,DA,TP,1608	
R211	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
R212	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
R213	2007-000043	R-CHIP;1KOHM,1%,1/16W,DA,TP,1608	
R214	2007-000043	R-CHIP;1KOHM,1%,1/16W,DA,TP,1608	
R215	2007-000965	R-CHIP;5.1KOHM,5%,1/16W,DA,TP,1608	
R216	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
R217	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	
R218	2007-000134	R-CHIP;33KOHM,5%,1/16W,DA,TP,1608	
R219	2007-000134	R-CHIP;33KOHM,5%,1/16W,DA,TP,1608	
R220	2007-000125	R-CHIP;3.9KOHM,5%,1/16W,DA,TP,1608	
R221	2007-000086	R-CHIP;5.6KOHM,5%,1/16W,DA,TP,1608	
R222	2007-000458	R-CHIP;18KOHM,5%,1/16W,DA,TP,1608	
R223	2007-000086	R-CHIP;5.6KOHM,5%,1/16W,DA,TP,1608	
R224	2007-001179	R-CHIP;8.2KOHM,5%,1/16W,DA,TP,1608	
R226	2007-000124	R-CHIP;2.2KOHM,5%,1/16W,DA,TP,1608	
R228	2007-000124	R-CHIP;2.2KOHM,5%,1/16W,DA,TP,1608	
R229	2007-000219	R-CHIP;1.2KOHM,1%,1/16W,DA,TP,1608	

Loc. No	New Part No	Description and Specification	Remark
R230	2007-000999	R-CHIP;510OHM,1%,1/16W,DA,TP,1608	
R231	2007-000683	R-CHIP;3.3KOHM,1%,1/16W,DA,TP,1608	
R232	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
R233	2007-000124	R-CHIP;2.2KOHM,5%,1/16W,DA,TP,1608	
R234	2007-000121	R-CHIP;820OHM,5%,1/16W,DA,TP,1608	
R235	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
R236	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
R237	2007-000118	R-CHIP;390OHM,5%,1/16W,DA,TP,1608	
R238	2007-000120	R-CHIP;680OHM,5%,1/16W,DA,TP,1608	
R239	2007-000120	R-CHIP;680OHM,5%,1/16W,DA,TP,1608	
R240	2007-000122	R-CHIP;1.2KOHM,5%,1/16W,DA,TP,1608	
R241	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
R242	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
R243	2007-000123	R-CHIP;1.5KOHM,5%,1/16W,DA,TP,1608	
R244	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
R245	2007-000122	R-CHIP;1.2KOHM,5%,1/16W,DA,TP,1608	
R246	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
R247	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
R248	2007-000092	R-CHIP;15KOHM,5%,1/16W,DA,TP,1608	
R251	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
R255	2007-000123	R-CHIP;1.5KOHM,5%,1/16W,DA,TP,1608	
R256	2007-000116	R-CHIP;120OHM,5%,1/16W,DA,TP,1608	
R257	2007-000074	R-CHIP;100OHM,5%,1/16W,DA,TP,1608	
R258	2007-000123	R-CHIP;1.5KOHM,5%,1/16W,DA,TP,1608	
R259	2007-000121	R-CHIP;820OHM,5%,1/16W,DA,TP,1608	
R260	2007-000121	R-CHIP;820OHM,5%,1/16W,DA,TP,1608	
R261	2007-000086	R-CHIP;5.6KOHM,5%,1/16W,DA,TP,1608	
R262	2007-000079	R-CHIP;1.8KOHM,5%,1/16W,DA,TP,1608	
R263	2007-000119	R-CHIP;560OHM,5%,1/16W,DA,TP,1608	
R264	2007-000109	R-CHIP;1MOHM,5%,1/16W,DA,TP,1608	
R271	2007-000120	R-CHIP;680OHM,5%,1/16W,DA,TP,1608	
R272	2007-000119	R-CHIP;560OHM,5%,1/16W,DA,TP,1608	
R273	2007-000119	R-CHIP;560OHM,5%,1/16W,DA,TP,1608	
R274	2007-000091	R-CHIP;12KOHM,5%,1/16W,DA,TP,1608	
R275	2007-000120	R-CHIP;680OHM,5%,1/16W,DA,TP,1608	
R276	2007-000074	R-CHIP;100OHM,5%,1/16W,DA,TP,1608	
R277	2007-000119	R-CHIP;560OHM,5%,1/16W,DA,TP,1608	
R278	2007-000077	R-CHIP;470OHM,5%,1/16W,DA,TP,1608	
R279	2007-000076	R-CHIP;330OHM,5%,1/16W,DA,TP,1608	
R280	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	
R282	2007-000125	R-CHIP;3.9KOHM,5%,1/16W,DA,TP,1608	
R283	2007-000124	R-CHIP;2.2KOHM,5%,1/16W,DA,TP,1608	
R301	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
R302	2007-000084	R-CHIP;4.7KOHM,5%,1/16W,DA,TP,1608	
R303	2007-001026	R-CHIP;560KOHM,5%,1/16W,DA,TP,1608	
R305	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
R306	2007-000077	R-CHIP;470OHM,5%,1/16W,DA,TP,1608	
R307	2007-000122	R-CHIP;1.2KOHM,5%,1/16W,DA,TP,1608	
R308	2007-000079	R-CHIP;1.8KOHM,5%,1/16W,DA,TP,1608	
R309	2007-000839	R-CHIP;39OHM,5%,1/16W,DA,TP,1608	
R310	2007-000119	R-CHIP;560OHM,5%,1/16W,DA,TP,1608	
R311	2007-000084	R-CHIP;4.7KOHM,5%,1/16W,DA,TP,1608	
R312	2007-000121	R-CHIP;820OHM,5%,1/16W,DA,TP,1608	
R313	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
R314	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	

Loc. No	New Part No	Description and Specification	Remark
R315	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
R316	2007-000120	R-CHIP;680OHM,5%,1/16W,DA,TP,1608	
R317	2007-000512	R-CHIP;2.4KOHM,5%,1/16W,DA,TP,1608	
R318	2007-000077	R-CHIP;470OHM,5%,1/16W,DA,TP,1608	
R319	2007-001134	R-CHIP;68OHM,5%,1/16W,DA,TP,1608	
R320	2007-000643	R-CHIP;270OHM,5%,1/16W,DA,TP,1608	
R321	2007-000075	R-CHIP;220OHM,5%,1/16W,DA,TP,1608	
R322	2007-000120	R-CHIP;680OHM,5%,1/16W,DA,TP,1608	
R323	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
R325	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	
R327	2007-000116	R-CHIP;120OHM,5%,1/16W,DA,TP,1608	
R328	2007-000101	R-CHIP;82KOHM,5%,1/16W,DA,TP,1608	
R329	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	
R330	2007-000119	R-CHIP;560OHM,5%,1/16W,DA,TP,1608	
R351	2007-000084	R-CHIP;4.7KOHM,5%,1/16W,DA,TP,1608	
R352	2007-000124	R-CHIP;2.2KOHM,5%,1/16W,DA,TP,1608	
R353	2007-000082	R-CHIP;3.3KOHM,5%,1/16W,DA,TP,1608	
R354	2007-000091	R-CHIP;12KOHM,5%,1/16W,DA,TP,1608	
R355	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
R356	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	
R357	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	
R358	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	
R359	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	
R360	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	
R361	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	
R362	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
R363	2007-000121	R-CHIP;820OHM,5%,1/16W,DA,TP,1608	
R364	2007-000122	R-CHIP;1.2KOHM,5%,1/16W,DA,TP,1608	
R365	2007-000122	R-CHIP;1.2KOHM,5%,1/16W,DA,TP,1608	
R366	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
R367	2007-000091	R-CHIP;12KOHM,5%,1/16W,DA,TP,1608	
R381	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
R382	2007-000695	R-CHIP;3.3OHM,5%,1/16W,DA,TP,1608	
R383	2007-000084	R-CHIP;4.7KOHM,5%,1/16W,DA,TP,1608	
R384	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
R401	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
R402	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
R403	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
R404	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
R405	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
R406	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
R407	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
R408	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
R409	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
R410	2007-000124	R-CHIP;2.2KOHM,5%,1/16W,DA,TP,1608	
R411	2007-000084	R-CHIP;4.7KOHM,5%,1/16W,DA,TP,1608	
R414	2007-000080	R-CHIP;2KOHM,5%,1/16W,DA,TP,1608	
R415	2007-000087	R-CHIP;6.8KOHM,5%,1/16W,DA,TP,1608	
R416	2007-000125	R-CHIP;3.9KOHM,5%,1/16W,DA,TP,1608	
R417	2007-000079	R-CHIP;1.8KOHM,5%,1/16W,DA,TP,1608	
R418	2007-001179	R-CHIP;8.2KOHM,5%,1/16W,DA,TP,1608	
R419	2007-000079	R-CHIP;1.8KOHM,5%,1/16W,DA,TP,1608	
R420	2007-001179	R-CHIP;8.2KOHM,5%,1/16W,DA,TP,1608	
R421	2007-000043	R-CHIP;1KOHM,1%,1/16W,DA,TP,1608	
R422	2007-000839	R-CHIP;39OHM,5%,1/16W,DA,TP,1608	

Loc. No	New Part No	Description and Specification	Remark
R423	2007-000043	R-CHIP;1KOHM,1%,1/16W,DA,TP,1608	
R431	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
R432	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
R432	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
R433	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
R434	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
VR301	2104-000122	VR-SMD;500OHM,25%,0.15W,TOP	
X201	2801-003240	CRYSTAL-SMD;4.433619MHZ,20PPM,28-ABN,SERIE	
CAMERA MAIN PARTS			
BP01	AC29-32001B	FILTER-EMI BEAD;CB321611-TA SB 0.2OH,-,-,-	
CNP01	3710-000408	CONNECTOR-SOCKET;40P,2R,0.8MM,-,	
CP01	2203-000440	C-CERAMIC,CHIP;1NF,10%,50V,X7R,1608,-,TP	
CP03	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CP04	2203-001083	C-CERAMIC,CHIP;5PF,0.1PF,50V,NPO,1608,-,TP	
CP05	2203-001083	C-CERAMIC,CHIP;5PF,0.1PF,50V,NPO,1608,-,TP	
CP06	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	
CP061	2404-000139	C-TA,CHIP;10UF,20%,6.3V,-,3216,-,TP	
CP10	2203-001699	C-CERAMIC,CHIP;8PF,0.5PF,50V,CH,1608,1.6MM,TP	
CP100	2203-000357	C-CERAMIC,CHIP;150PF,5%,50V,CH,1608,-,TP	
CP101	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CP102	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CP103	2404-000198	C-TA,CHIP;22UF,20%,6.3V,-,3528,-,TP	
CP104	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CP11	2203-001688	C-CERAMIC,CHIP;7PF,0.5PF,50V,CH,1608,1.6MM,TP	
CP111	2404-000139	C-TA,CHIP;10UF,20%,6.3V,-,3216,-,TP	
CP112	B1100-0674	C-CERAMIC,CHIP;CK 73 Y5V 16V T 685-Z C3225	
CP115	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CP13	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CP14	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CP15	2404-001039	C-TA,CHIP;47UF,20%,6.3V,-,3528,-,TP	
CP18	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CP19	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CP20	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CP200	2404-000198	C-TA,CHIP;22UF,20%,6.3V,-,3528,-,TP	
CP21	2404-001039	C-TA,CHIP;47UF,20%,6.3V,-,3528,-,TP	
CP22	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	
CP23	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	
CP24	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	
CP27	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CP28	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CP31	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	
CP32	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CP35	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CP36	2404-001039	C-TA,CHIP;47UF,20%,6.3V,-,3528,-,TP	
CP37	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CP38	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CP39	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CP41	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CP410	2203-000440	C-CERAMIC,CHIP;1NF,10%,50V,X7R,1608,-,TP	
CP43	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CP51	2404-000198	C-TA,CHIP;22UF,20%,6.3V,-,3528,-,TP	
CP54	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CP55	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CP56	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	

Loc. No	New Part No	Description and Specification	Remark
CP57	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CP58	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CP59	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CP60	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CP61	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CP62	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CP72	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
CP73	2404-000198	C-TA,CHIP;22UF,20%,6.3V,-,3528,-,TP	
CP74	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CP75	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CP76	2203-000626	C-CERAMIC,CHIP;22PF,5%,50V,CH,1608,-,TP	
CP77	2203-000626	C-CERAMIC,CHIP;22PF,5%,50V,CH,1608,-,TP	
CP78	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
CP79	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CP80	2404-000139	C-TA,CHIP;10UF,20%,6.3V,-,3216,-,TP	
CP81	2404-000198	C-TA,CHIP;22UF,20%,6.3V,-,3528,-,TP	
CP82	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CP83	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CP84	2203-000715	C-CERAMIC,CHIP;3.3NF,10%,50V,X7R,1608,-,TP	
CP85	2203-000715	C-CERAMIC,CHIP;3.3NF,10%,50V,X7R,1608,-,TP	
CP86	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CP87	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CP88	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
CP89	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
CP90	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
CP91	2203-000715	C-CERAMIC,CHIP;3.3NF,10%,50V,X7R,1608,-,TP	
CP92	2404-000198	C-TA,CHIP;22UF,20%,6.3V,-,3528,-,TP	
CP93	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CP94	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CP95	2404-000187	C-TA,CHIP;22UF,20%,10V,-,6032,-,TP	
CP96	2203-000140	C-CERAMIC,CHIP;1.5NF,10%,50V,X7R,1608,-,TP	
CP97	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CP98	2203-001598	C-CERAMIC,CHIP;2.2UF,+80-20%,16V,Y5V,2012,-,T	
CP99	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
CS105	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	EIS OPTIOM
CS106	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	EIS OPTIOM
CS108	2203-001559	C-CERAMIC,CHIP;100PF,5%,50V,CH,1608,1.6MM,TP	EIS OPTIOM
CS109	2203-001559	C-CERAMIC,CHIP;100PF,5%,50V,CH,1608,1.6MM,TP	EIS OPTIOM
CS110	2203-001559	C-CERAMIC,CHIP;100PF,5%,50V,CH,1608,1.6MM,TP	EIS OPTIOM
CS111	2404-000198	C-TA,CHIP;22UF,20%,6.3V,-,3528,-,TP	EIS OPTIOM
CS151	2203-001559	C-CERAMIC,CHIP;100PF,5%,50V,CH,1608,1.6MM,TP	EIS OPTIOM
CZ090	2203-001559	C-CERAMIC,CHIP;100PF,5%,50V,CH,1608,1.6MM,TP	D.ZOOM OPTION
CZ091	2203-001559	C-CERAMIC,CHIP;100PF,5%,50V,CH,1608,1.6MM,TP	D.ZOOM OPTION
CZ42	2404-000198	C-TA,CHIP;22UF,20%,6.3V,-,3528,-,TP	D.ZOOM OPTION
CZ63	2404-000198	C-TA,CHIP;22UF,20%,6.3V,-,3528,-,TP	D.ZOOM OPTION
CZ64	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	D.ZOOM OPTION
CZ66	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	D.ZOOM OPTION
CZ67	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	D.ZOOM OPTION
CZ68	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	D.ZOOM OPTION
CZ69	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	D.ZOOM OPTION
CZ71	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	D.ZOOM OPTION
CZ72	2203-001628	C-CERAMIC,CHIP;30PF,5%,50V,CH(VP-A12,VP-A15 ONLY)	D.ZOOM OPTION
	2203-001628	C-CERAMIC,CHIP;30PF,5%,50V,CH(VP-A17,VP-A18 ONLY)	D.ZOOM OPTION
DP01	0405-000151	DIODE-VARACTOR;1T379,30V,10NA,USMD,TP	
DP03	0401-000170	DIODE-SWITCHING;MA110,40V,100MA,-,3NS,SM2	

Loc. No	New Part No	Description and Specification	Remark
DP04	0401-000170	DIODE-SWITCHING;MA110,40V,100MA,-,3NS,SM2	
DP05	0401-000170	DIODE-SWITCHING;MA110,40V,100MA,-,3NS,SM2	
DP07	0401-000170	DIODE-SWITCHING;MA110,40V,100MA,-,3NS,SM2	
DP08	0401-000170	DIODE-SWITCHING;MA110,40V,100MA,-,3NS,SM2	
DP17	0401-000170	DIODE-SWITCHING;MA110,40V,100MA,-,3NS,SM2	
DP410	0405-000143	DIODE-VARACTOR;MA341,30V,10NA,MINI-2,TP	
DS12	0401-000170	DIODE-SWITCHING;MA110,40V,100MA,-,3NS,SM2	EIS OPTION
DS13	0401-000170	DIODE-SWITCHING;MA110,40V,100MA,-,3NS,SM2	EIS OPTION
DS14	0401-000170	DIODE-SWITCHING;MA110,40V,100MA,-,3NS,SM2	EIS OPTION
DS15	0401-000170	DIODE-SWITCHING;MA110,40V,100MA,-,3NS,SM2	EIS OPTION
DS16	0401-000170	DIODE-SWITCHING;MA110,40V,100MA,-,3NS,SM2	EIS OPTION
DZ09	0401-000170	DIODE-SWITCHING;MA110,40V,100MA,-,3NS,SM2	D.ZOOM OPTION
DZ10	0401-000170	DIODE-SWITCHING;MA110,40V,100MA,-,3NS,SM2	D.ZOOM OPTION
DZ11	0401-000170	DIODE-SWITCHING;MA110,40V,100MA,-,3NS,SM2	D.ZOOM OPTION
DZ12	0401-000170	DIODE-SWITCHING;MA110,40V,100MA,-,3NS,SM2	D.ZOOM OPTION
ICP01	AD14-10001L	IC-LOGIC;KS7213,QFP,80P	
ICP02	AD14-10001M	IC-LINEAR;KA7307,SOP,20P	
ICP04	1201-000200	IC-OP AMP;3414,SOP,8P,173MIL,DUAL,-,PLAS	
ICP06	1002-001033	IC-A/D CONVERTER;AD876JST,10BIT,QFP,48P,-,+-1/2	
ICP08	AD14-10001P	IC-LOGIC;KS7306,QFP,100P	
ICP09	AD11-12001A	IC-ROM;UPD78P018FGC-AB8,OTP,64PIN	
ICP10	AC11-12001G	IC-EEPROM;AT24C02N-10SC,QFP,-	
ICP11	AC14-12009X	IC;MB88346B,VSOP,-	
ICP12	AC14-12008D	IC-LOGIC;MPC17A85ZVM/SC111315,SOP,TAPE	
ICP13	1201-000200	IC-OP AMP;3414,SOP,8P,173MIL,DUAL,-,PLAS	
ICP14	1201-000200	IC-OP AMP;3414,SOP,8P,173MIL,DUAL,-,PLAS	
ICP16	AD14-10001H	IC-REGULATORS;TPS7233Q-PWLE,SSOP,8P	
ICS15	AC09-12014S	IC-MCU;CXP811P24R,QFP,SV-H68	EIS OPTION
ICZ07	AD14-10001N	IC-LOGIC;KS7314X,QFP,80P	D.ZOOM OPTION
LP01	2703-000403	INDUCTOR-SMD;22UH,10%,3.2X2.5X2.2MM	
LP03	2703-000403	INDUCTOR-SMD;22UH,10%,3.2X2.5X2.2MM	
LP04	2703-000403	INDUCTOR-SMD;22UH,10%,3.2X2.5X2.2MM	
LP07	2703-000403	INDUCTOR-SMD;22UH,10%,3.2X2.5X2.2MM	
LP08	2703-000403	INDUCTOR-SMD;22UH,10%,3.2X2.5X2.2MM	
LP09	2703-000403	INDUCTOR-SMD;22UH,10%,3.2X2.5X2.2MM	
LP10	2703-000403	INDUCTOR-SMD;22UH,10%,3.2X2.5X2.2MM	
LP11	2703-000403	INDUCTOR-SMD;22UH,10%,3.2X2.5X2.2MM	
LP12	2703-000403	INDUCTOR-SMD;22UH,10%,3.2X2.5X2.2MM	
LP20	2703-000403	INDUCTOR-SMD;22UH,10%,3.2X2.5X2.2MM	
LS13	2703-000403	INDUCTOR-SMD;22UH,10%,3.2X2.5X2.2MM	EIS OPTION
LZ02	2703-000403	INDUCTOR-SMD;22UH,10%,3.2X2.5X2.2MM	D.ZOOM OPTION
LZ05	2703-000403	INDUCTOR-SMD;22UH,10%,3.2X2.5X2.2MM	D.ZOOM OPTION
QP01	0504-000113	TR-DIGITAL;DTC144EUA,NPN,200MW,47K-47K,SC	
QP02	0504-000113	TR-DIGITAL;DTC144EUA,NPN,200MW,47K-47K,SC	
QP04	0506-000151	TR-ARRAY;UMZ1N,NPN/PNP,1,50V,40V,100MA,	
QP05	0506-000151	TR-ARRAY;UMZ1N,NPN/PNP,1,50V,40V,100MA,	
QP08	0501-000162	TR-SMALL SIGNAL;2SA1576,PNP,200MW,SC-70,TP,180	
QP09	0501-000162	TR-SMALL SIGNAL;2SA1576,PNP,200MW,SC-70,TP,180	
QP12	0501-000162	TR-SMALL SIGNAL;2SA1576,PNP,200MW,SC-70,TP,180	
QP13	0504-000113	TR-DIGITAL;DTC144EUA,NPN,200MW,47K-47K,SC	
QP14	0504-000113	TR-DIGITAL;DTC144EUA,NPN,200MW,47K-47K,SC	
QP16	0506-000138	TR-ARRAY;IMZ1,NPN/PNP,1,50V,40V,100MA,3	
QP17	0506-000138	TR-ARRAY;IMZ1,NPN/PNP,1,50V,40V,100MA,3	
RP01	2007-001442	R-CHIP;10OHM,5%,1/16W,DA,TP,1608	
RP010	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	

Loc. No	New Part No	Description and Specification	Remark
RP02	2007-001442	R-CHIP;10OHM,5%,1/16W,DA,TP,1608	
RP03	2007-001442	R-CHIP;10OHM,5%,1/16W,DA,TP,1608	
RP04	2007-001442	R-CHIP;10OHM,5%,1/16W,DA,TP,1608	
RP05	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	
RP06	2007-001442	R-CHIP;10OHM,5%,1/16W,DA,TP,1608	
RP07	2007-001442	R-CHIP;10OHM,5%,1/16W,DA,TP,1608	
RP08	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
RP09	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
RP091	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	VP-A12/A15 ONLY
RP092	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	VP-A12/A15 ONLY
RP093	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	VP-A12/A15 ONLY
RP094	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	VP-A12/A15 ONLY
RP095	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	VP-A12/A15 ONLY
RP096	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	VP-A12/A15 ONLY
RP10	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
RP100	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
RP101	2007-000092	R-CHIP;15KOHM,5%,1/16W,DA,TP,1608	
RP102	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
RP103	2007-000092	R-CHIP;15KOHM,5%,1/16W,DA,TP,1608	
RP104	2007-000100	R-CHIP;68KOHM,5%,1/16W,DA,TP,1608	
RP105	2007-000100	R-CHIP;68KOHM,5%,1/16W,DA,TP,1608	
RP106	2007-000863	R-CHIP;4.3OHM,5%,1/10W,DA,TP,2012	
RP107	2007-000863	R-CHIP;4.3OHM,5%,1/10W,DA,TP,2012	
RP108	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	
RP109	2007-000124	R-CHIP;2.2KOHM,5%,1/16W,DA,TP,1608	
RP11	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
RP110	2007-000124	R-CHIP;2.2KOHM,5%,1/16W,DA,TP,1608	
RP112	2007-000458	R-CHIP;18KOHM,5%,1/16W,DA,TP,1608	
RP113	2007-000134	R-CHIP;33KOHM,5%,1/16W,DA,TP,1608	
RP114	2007-000124	R-CHIP;2.2KOHM,5%,1/16W,DA,TP,1608	
RP116	2007-000124	R-CHIP;2.2KOHM,5%,1/16W,DA,TP,1608	
RP117	2007-000092	R-CHIP;15KOHM,5%,1/16W,DA,TP,1608	
RP118	2007-000120	R-CHIP;680OHM,5%,1/16W,DA,TP,1608	
RP119	2007-000109	R-CHIP;1MOHM,5%,1/16W,DA,TP,1608	
RP12	2007-000074	R-CHIP;100OHM,5%,1/16W,DA,TP,1608	
RP120	2007-000074	R-CHIP;100OHM,5%,1/16W,DA,TP,1608	
RP121	2007-000512	R-CHIP;2.4KOHM,5%,1/16W,DA,TP,1608	
RP122	2007-000076	R-CHIP;330OHM,5%,1/16W,DA,TP,1608	
RP123	2007-000512	R-CHIP;2.4KOHM,5%,1/16W,DA,TP,1608	
RP124	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	
RP125	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
RP126	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	
RP127	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
RP128	2007-000075	R-CHIP;220OHM,5%,1/16W,DA,TP,1608	
RP129	2007-000084	R-CHIP;4.7KOHM,5%,1/16W,DA,TP,1608	
RP130	2007-000084	R-CHIP;4.7KOHM,5%,1/16W,DA,TP,1608	
RP131	2007-001179	R-CHIP;8.2KOHM,5%,1/16W,DA,TP,1608	
RP132	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	
RP138	2007-000134	R-CHIP;33KOHM,5%,1/16W,DA,TP,1608	
RP140	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	
RP15	2007-000074	R-CHIP;100OHM,5%,1/16W,DA,TP,1608	
RP16	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	
RP18	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608(VP-A17/A18 ONLY)	EIS OPTION
RP19	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	VP-A12/A15 ONLY
RP200	2011-000770	R-NETWORK;470OHM,5%,1/16W,L,CHIP,8P,TP	

Loc. No	New Part No	Description and Specification	Remark
RP201	2011-000770	R-NETWORK;470OHM,5%,1/16W,L,CHIP,8P,TP	
RP22	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
RP23	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
RP24	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	
RP25	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	
RP26	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	
RP28	2007-001442	R-CHIP;10OHM,5%,1/16W,DA,TP,1608	
RP30	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	
RP300	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	
RP31	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
RP38	2007-001179	R-CHIP;8.2KOHM,5%,1/16W,DA,TP,1608	
RP381	2007-000109	R-CHIP;1MOHM,5%,1/16W,DA,TP,1608	
RP39	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	
RP40	2007-001038	R-CHIP;56KOHM,1%,1/16W,DA,TP,1608	
RP410	2007-000122	R-CHIP;1.2KOHM,5%,1/16W,DA,TP,1608	
RP43	2007-000250	R-CHIP;1.5MOHM,5%,1/16W,DA,TP,1608	
RP47	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	
RP48	2007-000100	R-CHIP;68KOHM,5%,1/16W,DA,TP,1608	
RP49	2007-000100	R-CHIP;68KOHM,5%,1/16W,DA,TP,1608	
RP58	2007-000074	R-CHIP;100OHM,5%,1/16W,DA,TP,1608	
RP59	B1018-0099	R-NETWORK;RN 1/16 FV 8P 101-J T MNR14-J-101 CS96	
RP60	2007-000074	R-CHIP;100OHM,5%,1/16W,DA,TP,1608	
RP61	B1018-0099	R-NETWORK;RN 1/16 FV 8P 101-J T MNR14-J-101 CS96	
RP63	2007-000124	R-CHIP;2.2KOHM,5%,1/16W,DA,TP,1608	
RP64	2007-000124	R-CHIP;2.2KOHM,5%,1/16W,DA,TP,1608	
RP65	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	
RP650	2007-000828	R-CHIP;39KOHM,1%,1/16W,DA,TP,1608	
RP651	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	
RP66	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
RP67	2007-000583	R-CHIP;22KOHM,1%,1/16W,DA,TP,1608	
RP69	2007-000772	R-CHIP;33KOHM,1%,1/16W,DA,TP,1608	
RP710	2007-000074	R-CHIP;100OHM,5%,1/16W,DA,TP,1608	
RP73	2007-000583	R-CHIP;22KOHM,1%,1/16W,DA,TP,1608	
RP74	2007-000583	R-CHIP;22KOHM,1%,1/16W,DA,TP,1608	
RP80	2007-000124	R-CHIP;2.2KOHM,5%,1/16W,DA,TP,1608	
RP81	2007-000402	R-CHIP;150OHM,5%,1/16W,DA,TP,1608	
RP82	2007-000124	R-CHIP;2.2KOHM,5%,1/16W,DA,TP,1608	
RP83	2007-000402	R-CHIP;150OHM,5%,1/16W,DA,TP,1608	
RP84	2007-000450	R-CHIP;180OHM,5%,1/16W,DA,TP,1608	
RP85	2007-000124	R-CHIP;2.2KOHM,5%,1/16W,DA,TP,1608	
RP86	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	
RP87	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
RP88	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
RP89	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	
RP90	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	
RP910	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	
RP911	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608(VP-A17/A18 ONLY)	EIS OPTION
RP912	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	VP-A12/A15 ONLY
RP92	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	
RP93	2007-000098	R-CHIP;56KOHM,5%,1/16W,DA,TP,1608	
RP96	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	
RP97	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	
RP99	2007-000087	R-CHIP;6.8KOHM,5%,1/16W,DA,TP,1608	
RS132	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	EIS OPTION
RS133	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	EIS OPTION

Loc. No	New Part No	Description and Specification	Remark
RS134	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	EIS OPTION
RS135	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	EIS OPTION
RS136	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	EIS OPTION
RS137	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	EIS OPTION
RS50	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	EIS OPTION
RZ75	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	D.ZOOM OPTION
RZ76	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	D.ZOOM OPTION
RZ78	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	D.ZOOM OPTION
RZ781	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	D.ZOOM OPTION
RZ79	2007-000683	R-CHIP;3.3KOHM,1%,1/16W,DA,TP,1608	D.ZOOM OPTION
XP01	2801-001428	CRYSTAL-SMD;28.375MHZ,30PPM,28-ABL,7PF,60O	
XP02	2801-003246	CRYSTAL-SMD;10MHZ,10PPM,28-ABR,12PF,70OHM,	
XP03	2801-003347	CRYSTAL-UNIT;17.734475MHZ,20PPM,28-ABN,8.2P	
181		**ASSY-AUDIO BOARD**	
	AD90-10808V	MONO AUDIO;VP-A12	
	AD90-10809B	STEREO AUDIO;VP-A15	
	AD90-10806Y	STEREO AUDIO,EIS;VP-A17,VP-A18	
AUDIO(MONO) PARTS			
C701	2404-000139	C-TA,CHIP;10UF,20%,6.3V,-,3216,-,TP	
C703	2402-001016	C-AL,SMD;33UF,20%,6.3V,-,4.3X4.3X5.8MM,	
C704	2402-000187	C-AL,SMD;220NF,20%,50V,-,3X5.5MM,-,TP	
C705	2402-000187	C-AL,SMD;220NF,20%,50V,-,3X5.5MM,-,TP	
C706	2404-000198	C-TA,CHIP;22UF,20%,6.3V,-,3528,-,TP	
C707	2404-000198	C-TA,CHIP;22UF,20%,6.3V,-,3528,-,TP	
C713	2203-000919	C-CERAMIC,CHIP;470NF,+80-20%,16V,Y5V,2012,-,T	
C714	2404-000139	C-TA,CHIP;10UF,20%,6.3V,-,3216,-,TP	
C716	2402-001013	C-AL,SMD;47UF,20%,6.3V,GP,5.3X1.5X5.4,1	
C717	2404-000175	C-TA,CHIP;2.2UF,20%,6.3V,-,3216,1.1MM,TP	
C718	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C719	2402-001010	C-AL,SMD;47UF,20%,16V,GP,6.6X6.6X5.4MM,	
C721	2203-000919	C-CERAMIC,CHIP;470NF,+80-20%,16V,Y5V,2012,-,T	
C722	2404-000175	C-TA,CHIP;2.2UF,20%,6.3V,-,3216,1.1MM,TP	
C727	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C728	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C729	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C731	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C733	2404-000139	C-TA,CHIP;10UF,20%,6.3V,-,3216,-,TP	
C734	2404-000198	C-TA,CHIP;22UF,20%,6.3V,-,3528,-,TP	
C736	2404-000216	C-TA,CHIP;3.3UF,20%,6.3V,-,3216,-,TP	
C741	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C742	2203-000262	C-CERAMIC,CHIP;10NF,10%,50V,X7R,3216,-,TP	
C747	2203-000888	C-CERAMIC,CHIP;4.7NF,10%,50V,X7R,1608,-,TP	
C750	2402-001016	C-AL,SMD;33UF,20%,6.3V,-,4.3X4.3X5.8MM,	
C751	B1106-0204	C-TANTALUM,CHIP;CS 6.3V T 476-J C5846 TCMS0JV476	
C755	2404-000198	C-TA,CHIP;22UF,20%,6.3V,-,3528,-,TP	
C756	2404-000198	C-TA,CHIP;22UF,20%,6.3V,-,3528,-,TP	
C757	2402-001016	C-AL,SMD;33UF,20%,6.3V,-,4.3X4.3X5.8MM,	
C758	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C759	2402-001016	C-AL,SMD;33UF,20%,6.3V,-,4.3X4.3X5.8MM,	
C760	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
CN701	3710-001129	CONNECTOR-SOCKET;40P,2R,0.8MM,SMD-S,SN	
CN703	3708-001141	CONNECTOR-FPC/FC/PIC;18P,0.8MM,SMD-A,SN	
IC701	1204-000328	IC-AUDIO PROCESSOR;AN3996HFP,SOP,64P,-,PLASTIC,5	

Loc. No	New Part No	Description and Specification	Remark
Q703	0506-000143	TR-ARRAY;UMD3N,NPN/PNP,1,50V,40V,100MA,	
Q704	0504-000107	TR-DIGITAL;DTA144EU,PNP,200MW,47K-47K,SC-	
Q707	0501-000218	TR-SMALL SIGNAL;2SC4081,NPN,200MW,SC-70,TP,180	
Q709	0501-000218	TR-SMALL SIGNAL;2SC4081,NPN,200MW,SC-70,TP,180	
Q712	0501-000218	TR-SMALL SIGNAL;2SC4081,NPN,200MW,SC-70,TP,180	
Q720	0504-000110	TR-DIGITAL;DTC114,NPN,200MW,10K-10K,SC-70	
Q721	0504-000110	TR-DIGITAL;DTC114,NPN,200MW,10K-10K,SC-70	
Q722	0504-000105	TR-DIGITAL;DTA114EU,PNP,200MW,10K-10K,SC-	
R700	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	
R701	2007-000121	R-CHIP;820OHM,5%,1/16W,DA,TP,1608	
R703	2007-000343	R-CHIP;120OHM,1%,1/16W,DA,TP,1608	
R704	2007-000343	R-CHIP;120OHM,1%,1/16W,DA,TP,1608	
R705	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	
R706	2007-000123	R-CHIP;1.5KOHM,5%,1/16W,DA,TP,1608	
R707	2007-000450	R-CHIP;180OHM,5%,1/16W,DA,TP,1608	
R709	2007-000109	R-CHIP;1MOHM,5%,1/16W,DA,TP,1608	
R710	2007-000084	R-CHIP;4.7KOHM,5%,1/16W,DA,TP,1608	
R714	2007-000084	R-CHIP;4.7KOHM,5%,1/16W,DA,TP,1608	
R716	2007-000118	R-CHIP;390OHM,5%,1/16W,DA,TP,1608	
R719	2007-000092	R-CHIP;15KOHM,5%,1/16W,DA,TP,1608	
R720	2007-000091	R-CHIP;12KOHM,5%,1/16W,DA,TP,1608	
R723	2007-000132	R-CHIP;180KOHM,5%,1/16W,DA,TP,1608	
R724	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	
R725	2007-000086	R-CHIP;5.6KOHM,5%,1/16W,DA,TP,1608	
R726	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	
R729	2007-000129	R-CHIP;27KOHM,5%,1/16W,DA,TP,1608	
R733	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
R735	2007-000081	R-CHIP;2.7KOHM,5%,1/16W,DA,TP,1608	
R736	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	
R737	2007-000103	R-CHIP;120KOHM,5%,1/16W,DA,TP,1608	
R740	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	
R751	2007-000129	R-CHIP;27KOHM,5%,1/16W,DA,TP,1608	
R754	2007-000033	R-CHIP;0OHM,5%,1/8W,DA,TP,3216	
R758	2007-000781	R-CHIP;33OHM,5%,1/10W,DA,TP,2012	
AUDIO(STEREO) PARTS			
C701	2404-000139	C-TA,CHIP;10UF,20%,6.3V,-,3216,-,TP	
C702	2404-000139	C-TA,CHIP;10UF,20%,6.3V,-,3216,-,TP	
C703	2402-001016	C-AL,SMD;33UF,20%,6.3V,-,4.3X4.3X5.8MM,	
C704	2402-000187	C-AL,SMD;220NF,20%,50V,-,3X5.5MM,-,TP	
C705	2402-000187	C-AL,SMD;220NF,20%,50V,-,3X5.5MM,-,TP	
C706	2404-000198	C-TA,CHIP;22UF,20%,6.3V,-,3528,-,TP	
C707	2404-000198	C-TA,CHIP;22UF,20%,6.3V,-,3528,-,TP	
C708	2402-000187	C-AL,SMD;220NF,20%,50V,-,3X5.5MM,-,TP	
C711	2402-000187	C-AL,SMD;220NF,20%,50V,-,3X5.5MM,-,TP	
C712	2203-000888	C-CERAMIC,CHIP;4.7NF,10%,50V,X7R,1608,-,TP	
C713	2203-000919	C-CERAMIC,CHIP;470NF,+80-20%,16V,Y5V,2012,-,T	
C714	2404-000139	C-TA,CHIP;10UF,20%,6.3V,-,3216,-,TP	
C716	2402-001013	C-AL,SMD;47UF,20%,6.3V,GP,5.3X1.5X5.4,1	
C717	2404-000175	C-TA,CHIP;2.2UF,20%,6.3V,-,3216,1.1MM,TP	
C718	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C719	2402-001010	C-AL,SMD;47UF,20%,16V,GP,6.6X6.6X5.4MM,	
C721	2203-000919	C-CERAMIC,CHIP;470NF,+80-20%,16V,Y5V,2012,-,T	
C722	2404-000175	C-TA,CHIP;2.2UF,20%,6.3V,-,3216,1.1MM,TP	
C723	2404-000175	C-TA,CHIP;2.2UF,20%,6.3V,-,3216,1.1MM,TP	

Loc. No	New Part No	Description and Specification	Remark
C725	2404-000198	C-TA,CHIP;22UF,20%,6.3V,-,3528,-,TP	
C726	2203-005127	C-CERAMIC,CHIP;1.5NF,10%,50V,X7R,1608,-,TP	
C727	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C728	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C729	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C731	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C733	2404-000139	C-TA,CHIP;10UF,20%,6.3V,-,3216,-,TP	
C734	2404-000198	C-TA,CHIP;22UF,20%,6.3V,-,3528,-,TP	
C736	2404-000175	C-TA,CHIP;2.2UF,20%,6.3V,-,3216,1.1MM,TP	
C737	2404-000175	C-TA,CHIP;2.2UF,20%,6.3V,-,3216,1.1MM,TP	
C738	2203-000919	C-CERAMIC,CHIP;470NF,+80-20%,16V,Y5V,2012,-,T	
C741	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C742	2404-000175	C-TA,CHIP;2.2UF,20%,6.3V,-,3216,1.1MM,TP	
C743	2402-001013	C-AL,SMD;47UF,20%,6.3V,GP,5.3X1.5X5.4,1	
C746	2203-000919	C-CERAMIC,CHIP;470NF,+80-20%,16V,Y5V,2012,-,T	
C747	2203-000888	C-CERAMIC,CHIP;4.7NF,10%,50V,X7R,1608,-,TP	
C750	2402-001016	C-AL,SMD;33UF,20%,6.3V,-,4.3X4.3X5.8MM,	
C751	B1106-0204	C-TANTALUM,CHIP;CS 6.3V T 476-J C5846 TCMS0JV476	
C755	2404-000198	C-TA,CHIP;22UF,20%,6.3V,-,3528,-,TP	
C756	2404-000198	C-TA,CHIP;22UF,20%,6.3V,-,3528,-,TP	
C757	2402-001016	C-AL,SMD;33UF,20%,6.3V,-,4.3X4.3X5.8MM,	
C758	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C759	2402-001016	C-AL,SMD;33UF,20%,6.3V,-,4.3X4.3X5.8MM,	
C760	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
CN701	3710-001129	CONNECTOR-SOCKET;40P,2R,0.8MM,SMD-S,SN	
CN703	3708-001141	CONNECTOR-FPC/FC/PIC;18P,0.8MM,SMD-A,SN	
IC701	1204-001118	IC-AUDIO PROCESSOR;AN2980FH,QFP,64P,-,PLASTIC,3V	
Q703	0506-000143	TR-ARRAY;UMD3N,NPN/PNP,1,50V,40V,100MA,	
Q704	0504-000107	TR-DIGITAL;DTA144EU,PNP,200MW,47K-47K,SC-	
Q707	0501-000218	TR-SMALL SIGNAL;2SC4081,NPN,200MW,SC-70,TP,180	
Q708	0501-000218	TR-SMALL SIGNAL;2SC4081,NPN,200MW,SC-70,TP,180	
Q709	0501-000218	TR-SMALL SIGNAL;2SC4081,NPN,200MW,SC-70,TP,180	
Q711	0501-000218	TR-SMALL SIGNAL;2SC4081,NPN,200MW,SC-70,TP,180	
Q712	0501-000218	TR-SMALL SIGNAL;2SC4081,NPN,200MW,SC-70,TP,180	
Q720	0504-000110	TR-DIGITAL;DTC114,NPN,200MW,10K-10K,SC-70	
Q721	0504-000110	TR-DIGITAL;DTC114,NPN,200MW,10K-10K,SC-70	
Q722	0504-000105	TR-DIGITAL;DTA114EU,PNP,200MW,10K-10K,SC-	
R701	2007-000121	R-CHIP;820OHM,5%,1/16W,DA,TP,1608	
R702	2007-000121	R-CHIP;820OHM,5%,1/16W,DA,TP,1608	
R703	2007-000343	R-CHIP;120OHM,1%,1/16W,DA,TP,1608	
R704	2007-000343	R-CHIP;120OHM,1%,1/16W,DA,TP,1608	
R705	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	
R706	2007-000123	R-CHIP;1.5KOHM,5%,1/16W,DA,TP,1608	
R707	2007-000450	R-CHIP;180OHM,5%,1/16W,DA,TP,1608	
R708	2007-000450	R-CHIP;180OHM,5%,1/16W,DA,TP,1608	
R709	2007-000109	R-CHIP;1MOHM,5%,1/16W,DA,TP,1608	
R710	2007-000075	R-CHIP;220OHM,5%,1/16W,DA,TP,1608	
R711	2007-000107	R-CHIP;470KOHM,5%,1/16W,DA,TP,1608	
R712	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	
R713	2007-000123	R-CHIP;1.5KOHM,5%,1/16W,DA,TP,1608	
R714	2007-000084	R-CHIP;4.7KOHM,5%,1/16W,DA,TP,1608	
R716	2007-000450	R-CHIP;180OHM,5%,1/16W,DA,TP,1608	
R717	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	
R718	2007-001206	R-CHIP;82KOHM,1%,1/16W,DA,TP,1608	
R719	2007-000092	R-CHIP;15KOHM,5%,1/16W,DA,TP,1608	

Loc. No	New Part No	Description and Specification	Remark
R720	2007-000091	R-CHIP;12KOHM,5%,1/16W,DA,TP,1608	
R721	2007-000084	R-CHIP;4.7KOHM,5%,1/16W,DA,TP,1608	
R722	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	
R723	2007-000103	R-CHIP;120KOHM,5%,1/16W,DA,TP,1608	
R724	2007-000106	R-CHIP;220KOHM,5%,1/16W,DA,TP,1608	
R725	2007-000084	R-CHIP;4.7KOHM,5%,1/16W,DA,TP,1608	
R726	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	
R728	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	
R729	2007-000092	R-CHIP;15KOHM,5%,1/16W,DA,TP,1608	
R730	2007-000104	R-CHIP;150KOHM,5%,1/16W,DA,TP,1608	
R732	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
R733	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
R734	2007-000079	R-CHIP;1.8KOHM,5%,1/16W,DA,TP,1608	
R735	2007-000081	R-CHIP;2.7KOHM,5%,1/16W,DA,TP,1608	
R737	2007-000103	R-CHIP;120KOHM,5%,1/16W,DA,TP,1608	
R739	2007-000106	R-CHIP;220KOHM,5%,1/16W,DA,TP,1608	
R740	2007-000819	R-CHIP;390KOHM,5%,1/16W,DA,TP,1608	
R751	2007-000129	R-CHIP;27KOHM,5%,1/16W,DA,TP,1608	
R752	2007-000129	R-CHIP;27KOHM,5%,1/16W,DA,TP,1608	
R753	2007-000033	R-CHIP;0OHM,5%,1/8W,DA,TP,3216	
R754	2007-000033	R-CHIP;0OHM,5%,1/8W,DA,TP,3216	
R758	2007-000781	R-CHIP;33OHM,5%,1/10W,DA,TP,2012	
EIS PARTS (VP-A17,VP-A18 ONLY)			
CI01	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CI02	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CI03	2203-001402	C-CERAMIC,CHIP;220NF,+80-20%,16V,Y5V,1608,1.6	
CI04	2203-000054	C-CERAMIC,CHIP;15NF,0.1,50V,X7R,1608,-,TP	
CI05	2402-000237	C-AL,SMD;33UF,0.1,10V,GP,5X5.4,1.5MM,TP	
CI06	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CI07	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CI08	2203-001402	C-CERAMIC,CHIP;220NF,+80-20%,16V,Y5V,1608,1.6	
CI09	2203-000054	C-CERAMIC,CHIP;15NF,0.1,50V,X7R,1608,-,TP	
CI10	2402-000237	C-AL,SMD;33UF,0.1,10V,GP,5X5.4,1.5MM,TP	
CI20	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CI21	2203-001630	C-CERAMIC,CHIP;330NF,+80-20%,16V,Y5V,1608,1.6	
CI22	2203-001559	C-CERAMIC,CHIP;100PF,5%,50V,CH,1608,1.6MM,TP	
CI26	2203-001630	C-CERAMIC,CHIP;330NF,+80-20%,16V,Y5V,1608,1.6	
CI27	2203-001559	C-CERAMIC,CHIP;100PF,5%,50V,CH,1608,1.6MM,TP	
CI41	2404-000198	C-TA,CHIP;22UF,20%,6.3V,-,3528,-,TP	
CI42	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
CI43	2404-000198	C-TA,CHIP;22UF,20%,6.3V,-,3528,-,TP	
CI44	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
CI51	2404-000198	C-TA,CHIP;22UF,20%,6.3V,-,3528,-,TP	
CI52	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
CI53	2404-000198	C-TA,CHIP;22UF,20%,6.3V,-,3528,-,TP	
CI54	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
ICI01	1201-000203	IC-OP AMP;3414,SOP,8P,300MIL,DUAL,-,PLAS	
ICI02	AD14-10001D	IC-AMP;NJM2902V,SSOP,14P	
ICI03	AC14-12007X	IC-LOGIC;TC4S66F,SSOP-5,5P	
ICI04	AC14-12007X	IC-LOGIC;TC4S66F,SSOP-5,5P	
LI01	2703-000398	INDUCTOR-SMD;10UH,10%,3.2X2.5X2.2MM	
RI01	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	
RI02	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	
RI03	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	

Loc. No	New Part No	Description and Specification	Remark
RI030	2007-000134	R-CHIP;33KOHM,5%,1/16W,DA,TP,1608	
RI04	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
RI05	2007-000107	R-CHIP;470KOHM,5%,1/16W,DA,TP,1608	
RI06	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	
RI07	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	
RI08	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	
RI09	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
RI10	2007-000107	R-CHIP;470KOHM,5%,1/16W,DA,TP,1608	
RI21	2007-000092	R-CHIP;15KOHM,5%,1/16W,DA,TP,1608	
RI22	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
RI23	2007-001026	R-CHIP;560KOHM,5%,1/16W,DA,TP,1608	
RI24	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	
RI25	2007-000107	R-CHIP;470KOHM,5%,1/16W,DA,TP,1608	
RI26	2007-000092	R-CHIP;15KOHM,5%,1/16W,DA,TP,1608	
RI27	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
RI28	2007-001026	R-CHIP;560KOHM,5%,1/16W,DA,TP,1608	
RI29	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	
RI30	2007-000107	R-CHIP;470KOHM,5%,1/16W,DA,TP,1608	
RI43	2007-000781	R-CHIP;33OHM,5%,1/10W,DA,TP,2012	
130	**AD90-10809C**	**ASSY-MIC BOARD;MONO VP-A12**	
C720	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
C721	2203-000715	C-CERAMIC,CHIP;3.3NF,10%,50V,X7R,1608,-,TP	
C722	2404-000107	C-TA,CHIP;100NF,20%,35V,-,3216,-,TP	
C723	2404-000198	C-TA,CHIP;22UF,20%,6.3V,-,3528,-,TP	
C724	2404-000232	C-TA,CHIP;4.7UF,20%,10V,-,3216,-,TP	
C725	2203-001662	C-CERAMIC,CHIP;5.6NF,10%,50V,CH,1608,1.6MM,TP	
C726	B1106-0204	C-TANTALUM,CHIP;CS 6.3V T 476-J C5846 TCMS0JV476	
C733	2404-000139	C-TA,CHIP;10UF,20%,6.3V,-,3216,-,TP	
CN722	3708-001132	CONNECTOR-FPC/FC/PIC;15P,0.5MM,SMD-A,SN	
CN723	3711-000456	CONNECTOR-HEADER;3WALL,4P,1R,1.25MM,SMD-S,SN	
JA761	AD37-20001A	JACK-PHONE;HSJ1456-012220,AU	
L702	2703-000397	INDUCTOR-SMD;33UH,10%,2.5X2X1.8MM	
LE761	0601-000208	LED;CHIP,RED,1.5X2MM,660NM	
Q720	0504-000113	TR-DIGITAL;DTC144EUA,NPN,200MW,47K-47K,SC	
Q721	0506-000150	TR-ARRAY;UMX2N,NPN,2,50V,40V,100MA,300M	
Q722	0501-000218	TR-SMALL SIGNAL;2SC4081,NPN,200MW,SC-70,TP,180	
R720	2007-000124	R-CHIP;2.2KOHM,5%,1/16W,DA,TP,1608	
R721	2007-000100	R-CHIP;68KOHM,5%,1/16W,DA,TP,1608	
R722	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
R723	2007-000122	R-CHIP;1.2KOHM,5%,1/16W,DA,TP,1608	
R724	2007-000122	R-CHIP;1.2KOHM,5%,1/16W,DA,TP,1608	
R725	2007-000075	R-CHIP;220OHM,5%,1/16W,DA,TP,1608	
R726	2007-000129	R-CHIP;27KOHM,5%,1/16W,DA,TP,1608	
R727	2007-000124	R-CHIP;2.2KOHM,5%,1/16W,DA,TP,1608	
R728	2007-000119	R-CHIP;560OHM,5%,1/16W,DA,TP,1608	
R729	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
R730	2007-000072	R-CHIP;47OHM,5%,1/16W,DA,TP,1608	
R731	2007-000084	R-CHIP;4.7KOHM,5%,1/16W,DA,TP,1608	
R732	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
R733	2007-000450	R-CHIP;180OHM,5%,1/16W,DA,TP,1608	
R734	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	
R736	2007-000842	R-CHIP;3KOHM,1%,1/16W,DA,TP,1608	
R737	2007-000100	R-CHIP;68KOHM,5%,1/16W,DA,TP,1608	

Loc. No	New Part No	Description and Specification	Remark
R739	2007-000104	R-CHIP;150KOHM,5%,1/16W,DA,TP,1608	
RE761	AD59-60060E	MODULE-REMOCON;DP,PNA4612M00XC,38KHZ,940NM,ME	
130		**ASSY-MIC BOARD**	
	AD90-10809A	STEREO;VP-A15	
	AD90-10805C	STEREO,EIS;VP-A17,VP-A18	
C761	2404-000175	C-TA,CHIP;2.2UF,20%,6.3V,-,3216,1.1MM,TP	
C762	2404-000139	C-TA,CHIP;10UF,20%,6.3V,-,3216,-,TP	
C763	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C764	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C765	2203-001609	C-CERAMIC,CHIP;22NF,10%,16V,X7R,1608,1.6MM,TP	
C766	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
C767	2203-001634	C-CERAMIC,CHIP;33NF,10%,50V,X7R,1608,-,TP	
C768	2203-001656	C-CERAMIC,CHIP;470PF,5%,50V,CH,1608,1.6MM,TP	
C769	2203-001634	C-CERAMIC,CHIP;33NF,10%,50V,X7R,1608,-,TP	
C770	2203-001143	C-CERAMIC,CHIP;68NF,10%,50V,X7R,1608,2MM,TP	
C771	2203-000140	C-CERAMIC,CHIP;1.5NF,10%,50V,X7R,1608,-,TP	
C772	2203-001609	C-CERAMIC,CHIP;22NF,10%,16V,X7R,1608,1.6MM,TP	
C773	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
C774	2203-001634	C-CERAMIC,CHIP;33NF,10%,50V,X7R,1608,-,TP	
C775	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
C776	2203-000440	C-CERAMIC,CHIP;1NF,10%,50V,X7R,1608,-,TP	
C777	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
C778	2404-000139	C-TA,CHIP;10UF,20%,6.3V,-,3216,-,TP	
C779	2203-000440	C-CERAMIC,CHIP;1NF,10%,50V,X7R,1608,-,TP	
C780	2203-000440	C-CERAMIC,CHIP;1NF,10%,50V,X7R,1608,-,TP	
C781	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
C782	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
C783	2203-001634	C-CERAMIC,CHIP;33NF,10%,50V,X7R,1608,-,TP	
C784	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
C785	2203-001143	C-CERAMIC,CHIP;68NF,10%,50V,X7R,1608,2MM,TP	
C786	2203-000140	C-CERAMIC,CHIP;1.5NF,10%,50V,X7R,1608,-,TP	
C787	2203-001609	C-CERAMIC,CHIP;22NF,10%,16V,X7R,1608,1.6MM,TP	
C788	2203-001634	C-CERAMIC,CHIP;33NF,10%,50V,X7R,1608,-,TP	
C789	2203-001634	C-CERAMIC,CHIP;33NF,10%,50V,X7R,1608,-,TP	
C790	2203-001656	C-CERAMIC,CHIP;470PF,5%,50V,CH,1608,1.6MM,TP	
C791	2404-000259	C-TA,CHIP;47UF,20%,6.3V,-,6032,-,TP	
CN761	3708-001132	CONNECTOR-FPC/FC/PIC;15P,0.5MM,SMD-A,SN	
CN763	3711-000456	CONNECTOR-HEADER;3WALL,4P,1R,1.25MM,SMD-S,SN	
GY01	AC39-22018S	SENSOR;-,-,-,ENC-05DA,-	
GY02	AC39-22018T	SENSOR;-,-,-,ENC-05DB,-	
IC761	1201-001108	IC-AUDIO AMP;7471,QFP,36P,-,SINGLE,-,PLASTI	
JA761	AD37-20001A	JACK-PHONE;HSJ1456-012220,AU	
L761	2703-000401	INDUCTOR-SMD;1UH,10%,3.2X2.5X2.2MM	
L762	2703-000401	INDUCTOR-SMD;1UH,10%,3.2X2.5X2.2MM	
L763	2703-000401	INDUCTOR-SMD;1UH,10%,3.2X2.5X2.2MM	
L764	2703-000367	INDUCTOR-SMD;33UH,5%,2.5X2X1.8MM	
LE761	0601-000208	LED;CHIP,RED,1.5X2MM,660NM	
Q761	0504-000113	TR-DIGITAL;DTC144EUA,NPN,200MW,47K-47K,SC	
R760	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
R761	2007-000106	R-CHIP;220KOHM,5%,1/16W,DA,TP,1608	
R762	2007-000104	R-CHIP;150KOHM,5%,1/16W,DA,TP,1608	
R763	2007-000104	R-CHIP;150KOHM,5%,1/16W,DA,TP,1608	
R764	2007-000104	R-CHIP;150KOHM,5%,1/16W,DA,TP,1608	

Loc. No	New Part No	Description and Specification	Remark
R765	2007-000129	R-CHIP;27KOHM,5%,1/16W,DA,TP,1608	
R766	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
R767	2007-000134	R-CHIP;33KOHM,5%,1/16W,DA,TP,1608	
R768	2007-000130	R-CHIP;39KOHM,5%,1/16W,DA,TP,1608	
R769	2007-000099	R-CHIP;62KOHM,5%,1/16W,DA,TP,1608	
R770	2007-000096	R-CHIP;30KOHM,5%,1/16W,DA,TP,1608	
R771	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
R772	2007-000084	R-CHIP;4.7KOHM,5%,1/16W,DA,TP,1608	
R773	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
R774	2007-000124	R-CHIP;2.2KOHM,5%,1/16W,DA,TP,1608	
R775	2007-000087	R-CHIP;6.8KOHM,5%,1/16W,DA,TP,1608	
R776	2007-000087	R-CHIP;6.8KOHM,5%,1/16W,DA,TP,1608	
R777	2007-000124	R-CHIP;2.2KOHM,5%,1/16W,DA,TP,1608	
R778	2007-000084	R-CHIP;4.7KOHM,5%,1/16W,DA,TP,1608	
R779	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
R780	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
R781	2007-000096	R-CHIP;30KOHM,5%,1/16W,DA,TP,1608	
R782	2007-000099	R-CHIP;62KOHM,5%,1/16W,DA,TP,1608	
R783	2007-000130	R-CHIP;39KOHM,5%,1/16W,DA,TP,1608	
R784	2007-000134	R-CHIP;33KOHM,5%,1/16W,DA,TP,1608	
R785	2007-000119	R-CHIP;560OHM,5%,1/16W,DA,TP,1608	
R786	2007-000072	R-CHIP;47OHM,5%,1/16W,DA,TP,1608	
R798	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	
R799	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	
RE761	AD59-60060E	MODULE-REMOCON;DP,PNA4612M00XC,38KHZ,940NM,ME	
187		**ASSY-CCD BOARD**	
	AD90-10812F	VP-A12,VP-A15	
	AD90-10808S	VP-A17,VP-A18	
CD01	2404-000151	C-TA,CHIP;1UF,20%,16V,-,3216,-,TP	
CD04	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CD05	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CD06	2203-000491	C-CERAMIC,CHIP;2.2NF,10%,50V,X7R,1608,-,TP	
CD07	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CD08	2404-000159	C-TA,CHIP;1UF,20%,35V,-,3528,-,TP	
CD09	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
CD20	2404-000212	C-TA,CHIP;3.3UF,20%,25V,-,3528,-,TP	
CD21	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CD22	2404-000130	C-TA,CHIP;10UF,20%,20V,-,6032,-,TP	
CD23	2404-000302	C-TA,CHIP;22UF,20%,16V,-,6032,4.4MM,TP	
CD24	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CD25	2404-000208	C-TA,CHIP;3.3UF,20%,16V,-,3528,-,TP	
CD26	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CD27	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CD30	2404-000187	C-TA,CHIP;22UF,20%,10V,-,6032,-,TP	
CD31	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CD32	2404-000198	C-TA,CHIP;22UF,20%,6.3V,-,3528,-,TP	
CD33	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CD34	2203-000715	C-CERAMIC,CHIP;3.3NF,10%,50V,X7R,1608,-,TP	
CD35	2203-000715	C-CERAMIC,CHIP;3.3NF,10%,50V,X7R,1608,-,TP	
CD36	2203-000715	C-CERAMIC,CHIP;3.3NF,10%,50V,X7R,1608,-,TP	
CD37	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
CD38	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
CD39	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	

Loc. No	New Part No	Description and Specification	Remark
CND01	3708-001146	CONNECTOR-FPC/FC/PIC;22P,0.5MM,SMD-A,SN	
CND02	B6010-1815	CONNECTOR-WAFER;IL-WAA-40P-HF-HD-A1-E1000 WHT JA	
DD01	0401-000170	DIODE-SWITCHING;MA110,40V,100MA,-,3NS,SM2	
DD02	0401-000170	DIODE-SWITCHING;MA110,40V,100MA,-,3NS,SM2	
ICD01	0605-001009	CCD;COLOR,DIP,14,400MIL,320K,7.3X4,VP-A12,VP-A15	
	0605-001005	CCD;COLOR,DIP,14P,400MIL,570K,4.85,VP-A17,VP-A18	
ICD02	1003-001065	IC-CLOCK DRIVER;KS7221D,SOP,20P,225MIL,QUAD,12	
ICD03	AC14-12008D	IC-LOGIC;MPC17A85ZVM/SC111315,SOP,TAPE	
LD20	2703-000403	INDUCTOR-SMD;22UH,10%,3.2X2.5X2.2MM	
LD21	2703-000379	INDUCTOR-SMD;150UH,5%,3.2X2.5X2.2MM	
LD30	2703-000403	INDUCTOR-SMD;22UH,10%,3.2X2.5X2.2MM	
LD31	2703-000403	INDUCTOR-SMD;22UH,10%,3.2X2.5X2.2MM	
QD01	0505-000180	FET-SILICON;2SK1070,N,-,50MA,-,150MW,SOT-2	
QD43	0504-000113	TR-DIGITAL;DTC144EUA,NPN,200MW,47K-47K,SC	
RD01	2007-000125	R-CHIP;3.9KOHM,5%,1/16W,DA,TP,1608	
RD02	2007-000074	R-CHIP;100OHM,5%,1/16W,DA,TP,1608	
RD03	2007-000109	R-CHIP;1MOHM,5%,1/16W,DA,TP,1608	
RD04	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	
RD05	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	
RD30	2007-000100	R-CHIP;68KOHM,5%,1/16W,DA,TP,1608	
RD31	2007-000100	R-CHIP;68KOHM,5%,1/16W,DA,TP,1608	
RD32	2007-000863	R-CHIP;4.3OHM,5%,1/10W,DA,TP,2012	
RD36	2007-000863	R-CHIP;4.3OHM,5%,1/10W,DA,TP,2012	
RD37	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
RD46	2007-000076	R-CHIP;330OHM,5%,1/16W,DA,TP,1608	
RD47	2007-000076	R-CHIP;330OHM,5%,1/16W,DA,TP,1608	
161	**AD59-10402A**	**UNIT-FUNCTION,BLC;A-PJ,BLC ASSY**	
CN802	3711-002162	CONNECTOR-HEADER;3WALL,2P,1R,1.25,STRAIGHT,SN	
R807	2007-000931	R-CHIP;470OHM,5%,1/10W,DA,TP,2012	
R808	2007-000454	R-CHIP;18KOHM,1%,1/10W,DA,TP,2012	
R809	2007-000771	R-CHIP;33KOHM,1%,1/10W,DA,TP,2012	
R810	2007-000771	R-CHIP;33KOHM,1%,1/10W,DA,TP,2012	
R811	2007-001124	R-CHIP;68KOHM,1%,1/10W,DA,TP,2012	
R812	2007-000277	R-CHIP;100KOHM,1%,1/10W,DA,TP,2012	
R813	2007-000754	R-CHIP;330KOHM,1%,1/10W,DA,TP,2012	
SW808	3404-001031	SWITCH-TACT;15V,20MA,100GF,4.9X4.9X1.5MM,S	
SW809	3404-001031	SWITCH-TACT;15V,20MA,100GF,4.9X4.9X1.5MM,S	
SW810	3404-001031	SWITCH-TACT;15V,20MA,100GF,4.9X4.9X1.5MM,S	
SW811	3404-001031	SWITCH-TACT;15V,20MA,100GF,4.9X4.9X1.5MM,S	
SW812	3404-001031	SWITCH-TACT;15V,20MA,100GF,4.9X4.9X1.5MM,S	
SW813	3404-001031	SWITCH-TACT;15V,20MA,100GF,4.9X4.9X1.5MM,S	
SW814	3404-001031	SWITCH-TACT;15V,20MA,100GF,4.9X4.9X1.5MM,S	
162		**UNIT-FUNCTION,DSE**	
	AD59-10397A	VP-A12,VP-A17	
	AD59-10398A	VP-A15,VP-A18	
C840	2203-001559	C-CERAMIC,CHIP;100PF,5%,50V,NPO,TP,1608,1.6MM	CVF OPTION
CN804	3711-000475	CONNECTOR-HEADER;3WALL,5P,1R,1.25MM,SMD-S,SN	EVF OPTION
CN805	3708-001169	CONNECTOR-FPC/FC/PIC;22P,1MM,SMD-A,SN	
CN806	3708-001134	CONNECTOR-FPC/FC/PIC;11P,0.5MM,SMD-A,SN	
CN807	3708-001130	CONNECTOR-FPC/FC/PIC;12P,0.5MM,SMD-S,SN	CVF OPTION
D801	0401-000170	DIODE-SWITCHING;MA110,40V,100MA,-,3NS,SM2	CVF OPTION

Loc. No	New Part No	Description and Specification	Remark
R814	2007-000277	R-CHIP;100KOHM,1%,1/10W,DA,TP,2012	
R815	2007-000454	R-CHIP;18KOHM,1%,1/10W,DA,TP,2012	
R816	2007-000931	R-CHIP;470OHM,5%,1/10W,DA,TP,2012	
R817	2007-000454	R-CHIP;18KOHM,1%,1/10W,DA,TP,2012	
R818	2007-000771	R-CHIP;33KOHM,1%,1/10W,DA,TP,2012	
R819	2007-000771	R-CHIP;33KOHM,1%,1/10W,DA,TP,2012	
R820	2007-001124	R-CHIP;68KOHM,1%,1/10W,DA,TP,2012	
R821	2007-000277	R-CHIP;100KOHM,1%,1/10W,DA,TP,2012	
R840	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	CVF OPTION
SW815	3404-001031	SWITCH-TACT;15V,20MA,100GF,4.9X4.9X1.5MM,S	
SW816	3404-001031	SWITCH-TACT;15V,20MA,100GF,4.9X4.9X1.5MM,S	
SW817	3406-000173	SWITCH-ROTARY;16VDC,100MA,10P10T,5.4MM	
163	**AD59-10403A**	**UNIT-FUNCTION,EAR;A-PJ,EAR ASSY**	
CN808	3711-000475	CONNECTOR-HEADER;3WALL,5P,1R,1.25MM,SMD-S,SN	
PH801	3722-000466	JACK-PHONE;1P/1C,PI3.5,AG,BLK,-	
R822	2007-000771	R-CHIP;33KOHM,1%,1/10W,DA,TP,2012	
R823	2007-000771	R-CHIP;33KOHM,1%,1/10W,DA,TP,2012	
R824	2007-001124	R-CHIP;68KOHM,1%,1/10W,DA,TP,2012	
R825	2007-000277	R-CHIP;100KOHM,1%,1/10W,DA,TP,2012	
SW818	3404-001031	SWITCH-TACT;15V,20MA,100GF,4.9X4.9X1.5MM,S	
SW819	3404-001031	SWITCH-TACT;15V,20MA,100GF,4.9X4.9X1.5MM,S	
SW820	3404-001031	SWITCH-TACT;15V,20MA,100GF,4.9X4.9X1.5MM,S	
SW821	3404-001031	SWITCH-TACT;15V,20MA,100GF,4.9X4.9X1.5MM,S	
		UNIT-FUNCTION,VCR	
CN801	3711-000456	CONNECTOR-HEADER;3WALL,4P,1R,1.25MM,SMD-S,SN	
R801	2007-000931	R-CHIP;470OHM,5%,1/10W,DA,TP,2012	
R802	2007-000454	R-CHIP;18KOHM,1%,1/10W,DA,TP,2012	
R803	2007-000771	R-CHIP;33KOHM,1%,1/10W,DA,TP,2012	
R804	2007-000771	R-CHIP;33KOHM,1%,1/10W,DA,TP,2012	
R805	2007-001124	R-CHIP;68KOHM,1%,1/10W,DA,TP,2012	
R806	2007-000277	R-CHIP;100KOHM,1%,1/10W,DA,TP,2012	
SW801	AD34-20100B	SWITCH-MODE;8EA,13MM/6.5MM,REEL,3V	
SW802	3404-001031	SWITCH-TACT;15V,20MA,100GF,4.9X4.9X1.5MM,S	
SW803	3404-001031	SWITCH-TACT;15V,20MA,100GF,4.9X4.9X1.5MM,S	
SW804	3404-001031	SWITCH-TACT;15V,20MA,100GF,4.9X4.9X1.5MM,S	
SW805	3404-001031	SWITCH-TACT;15V,20MA,100GF,4.9X4.9X1.5MM,S	
SW806	3404-001031	SWITCH-TACT;15V,20MA,100GF,4.9X4.9X1.5MM,S	
SW807	3404-001031	SWITCH-TACT;15V,20MA,100GF,4.9X4.9X1.5MM,S	
205	**AD90-10804X**	**ASSY-EVF;VP-A12,VP-A17**	
632	**AD90-10803R**	**ASSY-EVF BOARD**	
CE01	2203-000308	C-CERAMIC,CHIP;120PF,5%,50V,NPO,1608,-,TP	
CE02	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	
CE03	2404-000112	C-TA,CHIP;100UF,20%,6.3V,-,7343,-,TP	
CE04	2203-000888	C-CERAMIC,CHIP;4.7NF,10%,50V,X7R,1608,-,TP	
CE05	2404-000175	C-TA,CHIP;2.2UF,20%,6.3V,-,3216,1.1MM,TP	
CE06	2309-001001	C-FILM,CHIP;100NF,5%,16V,3.2X2.5X2.0MM,-,T	
CE07	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CE08	2404-000128	C-TA,CHIP;10UF,20%,16V,-,6032,-,TP	

Loc. No	New Part No	Description and Specification	Remark
CE09	2203-000357	C-CERAMIC,CHIP;150PF,5%,50V,CH,1608,-,TP	
CE10	2402-000144	C-AL,SMD;3.3UF,20%,50V,GP,4X5.4MM,-,TP	
CE11	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	
CE12	2404-000112	C-TA,CHIP;100UF,20%,6.3V,-,7343,-,TP	
CE13	2404-000112	C-TA,CHIP;100UF,20%,6.3V,-,7343,-,TP	
CE14	2404-000112	C-TA,CHIP;100UF,20%,6.3V,-,7343,-,TP	
CE15	2309-000143	C-FILM,CHIP;3.9NF,5%,100V,-,-,TP	
CE16	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CE17	2402-000144	C-AL,SMD;3.3UF,20%,50V,GP,4X5.4MM,-,TP	
CE18	2201-000911	C-CERAMIC,DISC;1.2NF,10%,1KV,Y5P,10X5,5,TP	
CNE01	3711-002612	CONNECTOR-HEADER;3WALL,5P,1R,1.25MM,SMD-S,SN	
CNE02	3711-002173	CONNECTOR-HEADER;BOX,4P,1R,1.5,STRAIGHT,SN	
CNE03	AC03-12001B	SOCKET-CRT;SOCKET FINDER,PI10 40MM,-,-,-,	
DE01	0407-000151	DIODE-ARRAY;MA153,40V,100MA,C2-3,SOT-23,TP	
DE02	0401-000173	DIODE-SWITCHING;MA151K,40V,100MA,-,3NS,SOT-23	
DE03	0401-000166	DIODE-SWITCHING;MA158-TX,200V,100MA,-,-,CHIP	
FTB01	AC26-32001B	TRANS-FLYBACK;ECX-C2806D,0.6INCH,4.8V	
ICE01	AC14-12006W	IC-LINEAR;KA7007,SOP,-	
LE01	2703-000409	INDUCTOR-SMD;47UH,10%,3.2X2.5X2.2MM	
LE02	AC27-32001B	COIL-LINEARITY;230UH-15%,PI0.12,T,-,-	
QE01	0501-000674	TR-SMALL SIGNAL;2SA1179,PNP,200MW,SOT-23,TP,90	
QE02	0501-000238	TR-SMALL SIGNAL;2SD968A,NPN,1W,SC-62,-,130-220	
QE03	0501-000674	TR-SMALL SIGNAL;2SA1179,PNP,200MW,SOT-23,TP,90	
QE04	0501-000674	TR-SMALL SIGNAL;2SA1179,PNP,200MW,SOT-23,TP,90	
RE01	2007-000109	R-CHIP;1MOHM,5%,1/16W,DA,TP,1608	
RE02	2007-000113	R-CHIP;33OHM,5%,1/16W,DA,TP,1608	
RE03	2007-000084	R-CHIP;4.7KOHM,5%,1/16W,DA,TP,1608	
RE04	2007-000107	R-CHIP;470KOHM,5%,1/16W,DA,TP,1608	
RE05	2007-000102	R-CHIP;100KOHM,5%,1/16W,DA,TP,1608	
RE06	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	
RE07	2007-000637	R-CHIP;270KOHM,5%,1/16W,DA,TP,1608	
RE08	2007-000074	R-CHIP;100OHM,5%,1/16W,DA,TP,1608	
RE09	2007-000695	R-CHIP;3.3OHM,5%,1/16W,DA,TP,1608	
RE10	2007-000079	R-CHIP;1.8KOHM,5%,1/16W,DA,TP,1608	
RE11	B1335-0002	THERMISTOR-CHIP;NTC CS 3216 3BH 471KC 470OHM/20D	
RE12	2007-000931	R-CHIP;470OHM,5%,1/10W,DA,TP,2012	
RE13	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
RE14	2007-000081	R-CHIP;2.7KOHM,5%,1/16W,DA,TP,1608	
RE15	2007-000965	R-CHIP;5.1KOHM,5%,1/16W,DA,TP,1608	
RE16	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
RE17	2007-001056	R-CHIP;6.2KOHM,5%,1/16W,DA,TP,1608	
RE18	2007-000101	R-CHIP;82KOHM,5%,1/16W,DA,TP,1608	
RE19	2007-001179	R-CHIP;8.2KOHM,5%,1/16W,DA,TP,1608	
RE20	2007-000130	R-CHIP;39KOHM,5%,1/16W,DA,TP,1608	
RE21	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	
RE22	2007-000082	R-CHIP;3.3KOHM,5%,1/16W,DA,TP,1608	
RE23	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP,2012	
RE24	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP,2012	
RE25	2007-000689	R-CHIP;3.3MOHM,5%,1/10W,DA,TP,2012	
RE26	2007-000689	R-CHIP;3.3MOHM,5%,1/10W,DA,TP,2012	
RE27	2007-000462	R-CHIP;18OHM,5%,1/10W,DA,TP,2012	
RE31	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
RE32	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
VRE01	2104-001014	VR-SMD;50KOHM,25%,0.15W,TOP	
VRE02	2104-001013	VR-SMD;220OHM,25%,0.15W,TOP	

Loc. No	New Part No	Description and Specification	Remark
VRE03	2104-000178	VR-SMD;1MOHM,30%,1/20W,TOP	
205	**AD90-10812P**	**ASSY-CVF;VP-A15,VP-A18**	
612	**AD90-10806T**	**ASSY-B/L BOARD**	
CNE01	3711-002172	CONNECTOR-HEADER;BOX,3P,1R,1.5,STRAIGHT,SN	
FLE01	B4158-0033	LAMP;3AE4T4KL0502Y 5V 0.3W WHT	
LE01	AC40-22002F	CONVERTER-COIL;-,-	
QE01	B4054-0053	FET;2SK1474-Z 20W 8A 100V MOS/N-CHANNEL T TL	
613	**AD90-10806U**	**ASSY-CVF BOARD**	
CE01	2404-000139	C-TA,CHIP;10UF,20%,6.3V,-,3216,-,TP	
CE02	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CE05	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
CE06	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
CE07	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
CE09	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
CE10	2404-000153	C-TA,CHIP;1UF,20%,20V,-,3216,-,TP	
CE11	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CE12	2404-000198	C-TA,CHIP;22UF,20%,6.3V,-,3528,-,TP	
CE13	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	
CE14	2404-000153	C-TA,CHIP;1UF,20%,20V,-,3216,-,TP	
CE15	2404-000153	C-TA,CHIP;1UF,20%,20V,-,3216,-,TP	
CE16	2404-000153	C-TA,CHIP;1UF,20%,20V,-,3216,-,TP	
CE17	2404-000153	C-TA,CHIP;1UF,20%,20V,-,3216,-,TP	
CE18	2203-001636	C-CERAMIC,CHIP;33PF,5%,50V,CH,1608,1.6MM,TP	
CE20	2404-000153	C-TA,CHIP;1UF,20%,20V,-,3216,-,TP	
CE22	2404-000112	C-TA,CHIP;100UF,20%,6.3V,-,7343,-,TP	
CE23	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CE24	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	
CE25	2404-000153	C-TA,CHIP;1UF,20%,20V,-,3216,-,TP	
CE26	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	
CE27	2203-000491	C-CERAMIC,CHIP;2.2NF,10%,50V,X7R,1608,-,TP	
CE28	2203-001656	C-CERAMIC,CHIP;470PF,5%,50V,CH,1608,1.6MM,TP	
CE29	2203-000715	C-CERAMIC,CHIP;3.3NF,10%,50V,X7R,1608,-,TP	
CE30	2404-000204	C-TA,CHIP;3.3UF,20%,10V,-,3216,-,TP	
CE31	2203-001607	C-CERAMIC,CHIP;220PF,5%,50V,CH,1608,1.6MM,TP	
CE32	2203-001636	C-CERAMIC,CHIP;33PF,5%,50V,CH,1608,1.6MM,TP	
CE33	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
CE34	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	
CE35	2404-000153	C-TA,CHIP;1UF,20%,20V,-,3216,-,TP	
CE36	2404-000153	C-TA,CHIP;1UF,20%,20V,-,3216,-,TP	
CE37	2203-001556	C-CERAMIC,CHIP;100NF,+80-20%,25V,Y5V,1608,1.6	
CE38	2203-000477	C-CERAMIC,CHIP;1UF,+80-20%,16V,Y5V,2012,-,TP	
CE40	2404-000153	C-TA,CHIP;1UF,20%,20V,-,3216,-,TP	
CE41	2404-000198	C-TA,CHIP;22UF,20%,6.3V,-,3528,-,TP	
CE42	2404-000198	C-TA,CHIP;22UF,20%,6.3V,-,3528,-,TP	
CE43	2404-000139	C-TA,CHIP;10UF,20%,6.3V,-,3216,-,TP	
CE44	2404-000139	C-TA,CHIP;10UF,20%,6.3V,-,3216,-,TP	
CE45	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
CE46	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
CE47	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	
CE48	2203-000257	C-CERAMIC,CHIP;10NF,10%,50V,X7R,1608,-,TP	

Loc. No	New Part No	Description and Specification	Remark
CNE01	3708-001143	CONNECTOR-FPC/FC/PIC;12P,0.8MM,SMD-A,SN	
CNE02	3708-000514	CONNECTOR-FPC/FC/PIC;16P,0.5MM,SMD-S,SN	
CNE03	3711-002613	CONNECTOR-HEADER;3WALL,3P,1R,1.25MM,SMD-S,SN	
DE02	0401-000170	DIODE-SWITCHING;MA110,40V,100MA,-,3NS,SM2	
DE03	0401-000170	DIODE-SWITCHING;MA110,40V,100MA,-,3NS,SM2	
DE04	0405-000123	DIODE-VARACTOR;1T369,34V,10NA,DSM,TP	
ICE01	1003-000259	IC-LCD DRIVER;CXA1854AR,QFP,64P,-,SINGLE,53M	
ICE02	B4012-0434	IC-LINEAR;MB88E347APFV-EL SSOP TAPE	
ICE03	AD14-10001C	IC-AMP;NJM2904V,SSOP,OP-AMP	
ICE04	B4004-0340	IC-LOGIC;TC7W04FU-TE12L SSOP TAPE 8P	
LE01	2703-000403	INDUCTOR-SMD;22UH,10%,3.2X2.5X2.2MM	
LE02	2703-000403	INDUCTOR-SMD;22UH,10%,3.2X2.5X2.2MM	
LE03	2703-000403	INDUCTOR-SMD;22UH,10%,3.2X2.5X2.2MM	
LE04	2703-000398	INDUCTOR-SMD;10UH,10%,3.2X2.5X2.2MM	
LE06	2703-000363	INDUCTOR-SMD;10UH,5%,2.5X2X1.8MM	
QE01	0501-000218	TR-SMALL SIGNAL;2SC4081,NPN,200MW,SC-70,TP,180	
QE02	0504-000211	TR-DIGITAL;DTC143TU,NPN,200MW,4.7K,SC-70,	
QE03	0504-000211	TR-DIGITAL;DTC143TU,NPN,200MW,4.7K,SC-70,	
QE04	0504-000211	TR-DIGITAL;DTC143TU,NPN,200MW,4.7K,SC-70,	
QE05	0506-000138	TR-ARRAY;IMZ1,NPN/PNP,1,50V,40V,100MA,3	
QE06	0501-000218	TR-SMALL SIGNAL;2SC4081,NPN,200MW,SC-70,TP,180	
RE05	2007-000098	R-CHIP;56KOHM,5%,1/16W,DA,TP,1608	
RE06	2007-000134	R-CHIP;33KOHM,5%,1/16W,DA,TP,1608	
RE07	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	
RE08	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	
RE09	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	
RE10	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	
RE13	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
RE14	2007-000100	R-CHIP;68KOHM,5%,1/16W,DA,TP,1608	
RE15	2007-000134	R-CHIP;33KOHM,5%,1/16W,DA,TP,1608	
RE16	2007-000134	R-CHIP;33KOHM,5%,1/16W,DA,TP,1608	
RE17	2007-000134	R-CHIP;33KOHM,5%,1/16W,DA,TP,1608	
RE18	2007-000134	R-CHIP;33KOHM,5%,1/16W,DA,TP,1608	
RE19	2007-000130	R-CHIP;39KOHM,5%,1/16W,DA,TP,1608	
RE20	2007-000130	R-CHIP;39KOHM,5%,1/16W,DA,TP,1608	
RE21	2007-000133	R-CHIP;330KOHM,5%,1/16W,DA,TP,1608	
RE22	2007-000133	R-CHIP;330KOHM,5%,1/16W,DA,TP,1608	
RE23	2007-000133	R-CHIP;330KOHM,5%,1/16W,DA,TP,1608	
RE24	2007-000129	R-CHIP;27KOHM,5%,1/16W,DA,TP,1608	
RE25	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	
RE26	2007-000491	R-CHIP;2.2KOHM,1%,1/16W,DA,TP,1608	
RE27	2007-000643	R-CHIP;270OHM,5%,1/16W,DA,TP,1608	
RE28	2007-000075	R-CHIP;220OHM,5%,1/16W,DA,TP,1608	
RE30	2007-000129	R-CHIP;27KOHM,5%,1/16W,DA,TP,1608	
RE31	2007-000091	R-CHIP;12KOHM,5%,1/16W,DA,TP,1608	
RE32	2007-000091	R-CHIP;12KOHM,5%,1/16W,DA,TP,1608	
RE34	2007-000084	R-CHIP;4.7KOHM,5%,1/16W,DA,TP,1608	
RE35	2007-000239	R-CHIP;1.5KOHM,1%,1/16W,DA,TP,1608	
RE37	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
RE38	2007-000124	R-CHIP;2.2KOHM,5%,1/16W,DA,TP,1608	
RE39	2007-000082	R-CHIP;3.3KOHM,5%,1/16W,DA,TP,1608	
RE40	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	
RE41	2007-000070	R-CHIP;0OHM,5%,1/16W,DA,TP,1608	
RE42	2007-000091	R-CHIP;12KOHM,5%,1/16W,DA,TP,1608	
RE43	2007-000097	R-CHIP;47KOHM,5%,1/16W,DA,TP,1608	

Loc. No	New Part No	Description and Specification	Remark
RE44	2007-000094	R-CHIP;22KOHM,5%,1/16W,DA,TP,1608	
RE45	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
RE46	2007-000134	R-CHIP;33KOHM,5%,1/16W,DA,TP,1608	
RE47	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
RE48	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
RE49	2007-000091	R-CHIP;12KOHM,5%,1/16W,DA,TP,1608	
RE50	2007-000637	R-CHIP;270KOHM,5%,1/16W,DA,TP,1608	
RE51	2007-000106	R-CHIP;220KOHM,5%,1/16W,DA,TP,1608	
RE52	2007-000091	R-CHIP;12KOHM,5%,1/16W,DA,TP,1608	
RE52	2007-000091	R-CHIP;12KOHM,5%,1/16W,DA,TP,1608	
RE53	2007-000614	R-CHIP;24KOHM,1%,1/16W,DA,TP,1608	
RE54	2007-000455	R-CHIP;18KOHM,1%,1/16W,DA,TP,1608	
RE55	2007-000683	R-CHIP;3.3KOHM,1%,1/16W,DA,TP,1608	
RE56	2007-000614	R-CHIP;24KOHM,1%,1/16W,DA,TP,1608	
RE57	2007-000067	R-CHIP;15KOHM,1%,1/16W,DA,TP,1608	
RE58	2007-000078	R-CHIP;1KOHM,5%,1/16W,DA,TP,1608	
RE59	2007-000090	R-CHIP;10KOHM,5%,1/16W,DA,TP,1608	
RE60	2007-000082	R-CHIP;3.3KOHM,5%,1/16W,DA,TP,1608	
RE60	2007-000082	R-CHIP;3.3KOHM,5%,1/16W,DA,TP,1608	
VRE01	2104-000135	VR-SMD;22KOHM,25%,0.15W,TOP	
XE01	2801-003126	CRYSTAL-SMD;4.433619MHZ,30PPM,28-ABN,16PF,	

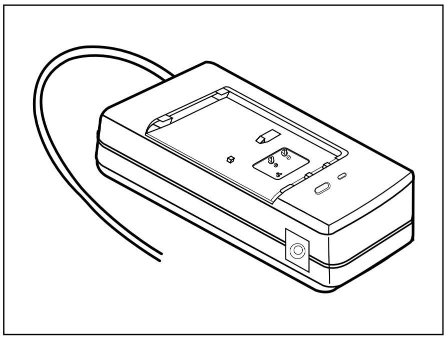
Loc. No	New Part No	Description and Specification	Remark
		ASSY-ACCESSORY	
1		**ADAPTER-AC POWER**	
	AD44-30100J	AA-E4P;SEAU ONLY	
	AD44-30100H	AA-E4P;SEUK(SESC) ONLY	
	AD44-30100D	AA-E4P;ALL BUYER EXCEPT SEAU,SEUK(SESC)	
C10	2306-000298	C-FILM,MPPF;220NF,20%,250V,6.5X5.5X3MM,5MM	
C11	2201-000808	C-CERAMIC,DISC;2.2NF,10%,400V,Y5P,12X7.5,7.5,	
C12	2201-000808	C-CERAMIC,DISC;2.2NF,10%,400V,Y5P,12X7.5,7.5,	
C13	2401-001567	C-AL;47UF,20%,400V,WT,18X20,10MM,	
C14	2201-000808	C-CERAMIC,DISC;2.2NF,10%,400V,Y5P,12X7.5,7.5,	
C15	2201-000808	C-CERAMIC,DISC;2.2NF,10%,400V,Y5P,12X7.5,7.5,	
C16	2301-000140	C-FILM,PEF;10NF,10%,630V,16.5X9.5X5.7X,12	
C17	2203-001537	C-CERAMIC,CHIP;1NF,10%,50V,X7R,2012,-,TP	
C18	2401-002180	C-AL;2.2UF,0.2,50V,GP,5X11,5MM,TP	
C19	2203-000840	C-CERAMIC,CHIP;390PF,5%,50V,NPO,2012,-,TP	
C20	2203-001576	C-CERAMIC,CHIP;150NF,+80-20%,50V,Z5U,2012,2MM	
C21	2401-001184	C-AL;33UF,20%,35V,GP,6X11,5MM,-	
C22	2401-002168	C-AL;100UF,0.2,50V,GP,10X12.5,5MM,TP	
C23	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,2012,-,T	
C50	2401-001591	C-AL;47UF,20%,6.3V,GP,5X7,2.5MM,	
C51	2203-001537	C-CERAMIC,CHIP;1NF,10%,50V,X7R,2012,-,TP	
C52	2203-001537	C-CERAMIC,CHIP;1NF,10%,50V,X7R,2012,-,TP	
C53	2401-001878	C-AL;1000UF,20%,16V,GP,10X20MM,5MM	
C54	2401-001374	C-AL;470UF,20%,16V,WT,10X12.5,2.5MM	
C55	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,2012,-,T	
C56	2203-000260	C-CERAMIC,CHIP;10NF,10%,50V,X7R,2012,-,TP	
C57	2401-001917	C-AL;1UF,20%,50V,-,5X7MM,5,TP	
C59	2401-001952	C-AL;4.7UF,20%,50V,-,4X7MM,5,TP	
C60	61453-131-105	C-CERAMIC.CHIP;GRM42-6Y5V105Z16 TAPG	
C61	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,2012,-,T	
C62	B1100-0674	C-CERAMIC,CHIP;CK 73 Y5V 16V T 685-Z C3225	
C64	2201-000913	C-CERAMIC,DISC;100NF,+80-20%,50V,Y5V,8X3.5,5,	
C65	2202-000780	C-CERAMIC,MLC-AXIAL;100NF,+80-20%,50V,Y5V,3.5X19	
C66	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,2012,-,T	
C67	2203-000199	C-CERAMIC,CHIP;100NF,+80-20%,50V,Z5U,2012,-,T	
D10	0402-000386 ⚠	DIODE-BRIDGE;S1WB60,600V,1A,DIP-4	
D11	0402-000391	DIODE-RECTIFIER;ERA22-10,1000V,500MA,MSR	
D12	0401-000170	DIODE-SWITCHING;MA110,40V,100MA,-,3NS,SM2	
D13	0403-000646	DIODE-ZENER;RD20SB,20V,18.8-21.14V,200MW,M	
D14	0403-000648	DIODE-ZENER;RD4.7SB,4.7V,4.4-4.92,200MW,MI	
D15	0403-000647	DIODE-ZENER;RD24SB,24V,22.86-25.66V,200MW,	
D16	0402-000391	DIODE-RECTIFIER;ERA22-10,1000V,500MA,MSR	
D17	0402-000391	DIODE-RECTIFIER;ERA22-10,1000V,500MA,MSR	
D51	0404-000135	DIODE-SCHOTTKY;ESAC85M-009,90V,10A,TO-220,BK	
D52	0402-000165	DIODE-RECTIFIER;1N5819,40V,1A,DO-41,TP	
D53	0407-000114	DIODE-ARRAY;DAN202K,80V,100MA,CA2-3,SOT-23	
D54	0407-000116	DIODE-ARRAY;DAP202K,80V,100MA,CK2-3,SOT-23	
D55	0401-000170	DIODE-SWITCHING;MA110,40V,100MA,-,3NS,SM2	
D57	0403-000649	DIODE-ZENER;RD5.1S,5.1V,4.96-5.22V,200MW,M	
F10	B3065-0202 ⚠	FUSE;DEMKO FST 250V 1.25A 5X20MM S505 C HBC	
IC11	AC14-12011C ⚠	IC;FA5304S,SOP,8P TAPE	
IC12	B4161-0037 ⚠	PHOTO-COUPLER;TLP621-GR ST	
IC51	1201-000203	IC-OP AMP;3414,SOP,8P,300MIL,DUAL,-,PLAS	

Loc. No	New Part No		Description and Specification	Remark
IC52	AC14-12006R		IC;TK11640N,TO-92S,3P TAPE	
IC53	AD09-12001F	⚠	IC-MICOM;TMP47C241N,STICK,28P	
J51	B3040-0068	⚠	JACK-DC;PI3 HEC0740-01-010 3P	
L10	AC27-32001F	⚠	COIL-LINE FILTER;BSF-2123,20MH,2OHM,ST,-	
L11	A1247-0053		FILTER-EMI BEAD;BFS3565A0L SB 100OHM/100MHZ-90OH	
L51	2702-000112		INDUCTOR-RADIAL;10UH,5%,6X6.4MM	
L52	AC27-12001F		COIL-CHOKE;100UH,J,-,-,-,100UH-J RA 1KHZ	
LED51	B4150-0287		LED-DISPLAY;LN086WP38 ORG/GRN PI1.8	
PWR01	AC39-12022M		POWER-CORD;CP2,KJ-0201,BLK,YH396-32V,1.83	
Q10	0505-001044	⚠	FET-SILICON;SSS3N80,N,800V,1.8A,5OHM,35W,T	
Q51	0502-000399		TR-POWER;2SB1127S,PNP,1W,TO-126,BK,140-	
Q52	62129-101-110		TRANSISTOR.CHIP;KSR 1102 (REEL)	
Q53	0502-000431		TR-POWER;2SB1203S,PNP,1W,IPAK,TP,140-28	
Q54	62129-101-110		TRANSISTOR.CHIP;KSR 1102 (REEL)	
Q55	0504-000158		TR-DIGITAL;KSR2104,PNP,200MW,47K-47K,SOT-	
Q56	0504-000158		TR-DIGITAL;KSR2104,PNP,200MW,47K-47K,SOT-	
Q57	0504-000158		TR-DIGITAL;KSR2104,PNP,200MW,47K-47K,SOT-	
R01	2007-000029		R-CHIP;0OHM,5%,1/10W,DA,TP,2012	
R02	2007-000029		R-CHIP;0OHM,5%,1/10W,DA,TP,2012	
R03	2007-000029		R-CHIP;0OHM,5%,1/10W,DA,TP,2012	
R04	2007-000029		R-CHIP;0OHM,5%,1/10W,DA,TP,2012	
R05	2007-000033		R-CHIP;0OHM,5%,1/8W,DA,TP,3216	
R06	2007-000033		R-CHIP;0OHM,5%,1/8W,DA,TP,3216	
R10	2001-000474		R-CARBON;2.7MOHM,5%,1/4W,AA,TP,2.4X6.4M	
R12	A1014-0079		R-CEMENT;RWC 2W I 3R3-J ST ABCO	
R13	2001-001000		R-CARBON;82KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R14	2001-001000		R-CARBON;82KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R15	2007-001212		R-CHIP;82KOHM,5%,1/8W,DA,TP,3216	
R16	2001-001000		R-CARBON;82KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R17	2003-000307		R-METAL OXIDE;47KOHM,5%,2W,AD,TP,6X16MM	
R19	2003-000111		R-METAL OXIDE;0.47OHM,5%,1W,AD,TP,4.3X12MM	
R20	2007-000572		R-CHIP;220OHM,5%,1/10W,DA,TP,2012	
R21	2007-000781		R-CHIP;33OHM,5%,1/10W,DA,TP,2012	
R22	2007-000248		R-CHIP;1.5MOHM,5%,1/10W,DA,TP,2012	
R24	2007-000781		R-CHIP;33OHM,5%,1/10W,DA,TP,2012	
R25	2007-001177		R-CHIP;8.2KOHM,5%,1/10W,DA,TP,2012	
R51	2007-000312		R-CHIP;10OHM,5%,1/8W,DA,TP,3216	
R52	2007-000515		R-CHIP;2.7KOHM,1%,1/10W,DA,TP,2012	
R53	2007-000218		R-CHIP;1.2KOHM,1%,1/10W,DA,TP,2012	
R54	2007-000639		R-CHIP;270OHM,1%,1/10W,DA,TP,2012	
R55	2007-000282		R-CHIP;100KOHM,5%,1/10W,DA,TP,2012	
R56	2007-000572		R-CHIP;220OHM,5%,1/10W,DA,TP,2012	
R57	2007-000518		R-CHIP;2.7KOHM,5%,1/10W,DA,TP,2012	
R58	2007-000282		R-CHIP;100KOHM,5%,1/10W,DA,TP,2012	
R59	2007-000361		R-CHIP;12OHM,5%,1/10W,DA,TP,2012	
R60	2007-000928		R-CHIP;470OHM,1%,1/10W,DA,TP,2012	
R61	2007-000218		R-CHIP;1.2KOHM,1%,1/10W,DA,TP,2012	
R62	2007-000868		R-CHIP;4.7KOHM,1%,1/10W,DA,TP,2012	
R63	2007-000868		R-CHIP;4.7KOHM,1%,1/10W,DA,TP,2012	
R64	2007-000658		R-CHIP;27OHM,5%,1/10W,DA,TP,2012	
R65	2003-000102		R-METAL OXIDE;0.1OHM,5%,1W,AD,TP,4.3X12MM	
R66	2007-000355		R-CHIP;12KOHM,5%,1/10W,DA,TP,2012	
R67	2007-000221		R-CHIP;1.2KOHM,5%,1/10W,DA,TP,2012	
R68	2007-000493		R-CHIP;2.2KOHM,5%,1/10W,DA,TP,2012	
R69	2007-000931		R-CHIP;470OHM,5%,1/10W,DA,TP,2012	

Loc. No	New Part No	Description and Specification	Remark
R70	B1004-0442	R-METAL OXIDE;RS 3W N 43-J ERG3SJ430H	
R71	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	
R72	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	
R73	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012	
R74	B1004-0442	R-METAL OXIDE;RS 3W N 43-J ERG3SJ430H	
R75	2007-000409	R-CHIP;15KOHM,5%,1/10W,DA,TP,2012	
R76	2007-000409	R-CHIP;15KOHM,5%,1/10W,DA,TP,2012	
R77	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	
R78	2007-000409	R-CHIP;15KOHM,5%,1/10W,DA,TP,2012	
R79	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	
R80	2007-000822	R-CHIP;390OHM,5%,1/10W,DA,TP,2012	
R81	2007-000409	R-CHIP;15KOHM,5%,1/10W,DA,TP,2012	
R82	2007-000518	R-CHIP;2.7KOHM,5%,1/10W,DA,TP,2012	
R83	2007-000822	R-CHIP;390OHM,5%,1/10W,DA,TP,2012	
R84	2007-000653	R-CHIP;27KOHM,5%,1/10W,DA,TP,2012	
R85	2007-000409	R-CHIP;15KOHM,5%,1/10W,DA,TP,2012	
R86	2007-000653	R-CHIP;27KOHM,5%,1/10W,DA,TP,2012	
R87	2003-000146	R-METAL OXIDE;100OHM,5%,1W,AD,TP,4.3X12MM	
R90	2007-000950	R-CHIP;47OHM,5%,1/8W,DA,TP,3216	
R91	2007-000950	R-CHIP;47OHM,5%,1/8W,DA,TP,3216	
R92	2007-000950	R-CHIP;47OHM,5%,1/8W,DA,TP,3216	
R93	2007-000950	R-CHIP;47OHM,5%,1/8W,DA,TP,3216	
R94	2007-000653	R-CHIP;27KOHM,5%,1/10W,DA,TP,2012	
R95	2007-000221	R-CHIP;1.2KOHM,5%,1/10W,DA,TP,2012	
R96	2007-000267	R-CHIP;1.8KOHM,5%,1/10W,DA,TP,2012	
R97	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
SW51	3404-000239	SWITCH-TACT;15V,20MA,130+-40GF,6X6MM,-	
T10	AC26-80001F ⚠	TRANS-POWER;EI25X19,AC90/260V,50HZ,-	
W10	3711-000178	CONNECTOR-HEADER;1WALL,2P,1R,3.96MM,STRAIGHT,SN	
XT51	64539-102-012	CERAMIC RESONATOR;FCR 4.0MC5	
2	**3722-001027**	**JACK-RCA(SCART ADAPTOR);PI7.5,-,AU,BLK,-**	
3	**AC39-42001N**	**CABLE-A/V;-,-,1.5MT,RCA,-,-,-**	
4	**AC39-42001Y**	**CABLE-DC;DC/OUT,-,DC-E1A,7.5V,-,-,-**	
5	**AC98-10012L**	**ASSY-LITHUM BATTERY;CR2025,3V PACK 30X56**	
6	**AD59-10373A**	**UNIT-BATTERY PACK;NC-120P,6V 1200MAH(PAL)**	
7	**AD59-10379A**	**UNIT-REMOCON;RM-A1,(PAL)**	
8	**AD63-10210A**	**STRAP-SHOULDER;-,LEATHER,T1.5,1280X10,D-GRAT,**	
9	**AC46-12001D**	**8MM CASSETTE TAPE**	
10	**AC59-92002V**	**RF-E1P**	
11	**AC59-92003E**	**RF-E2P**	

ACCESSORY

1



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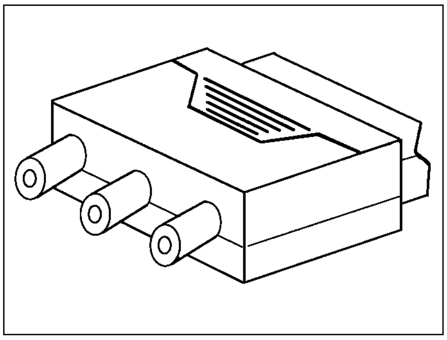

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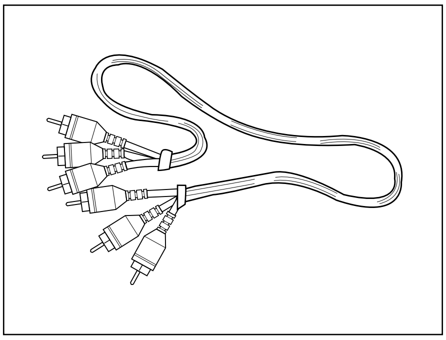

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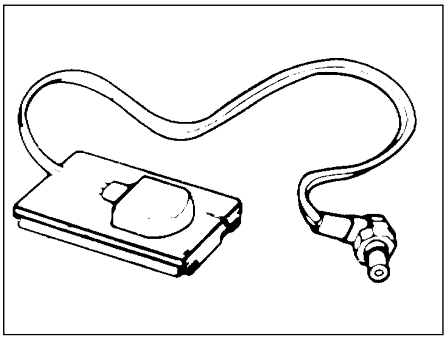

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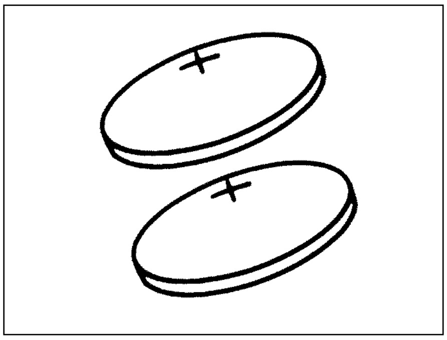

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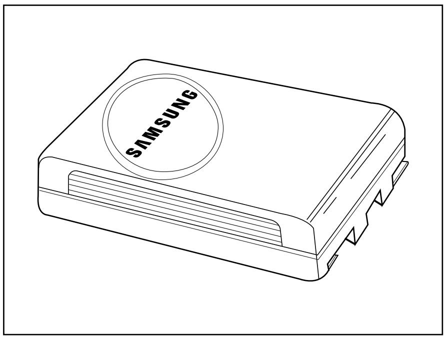

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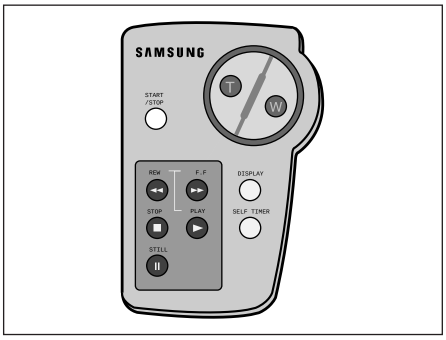
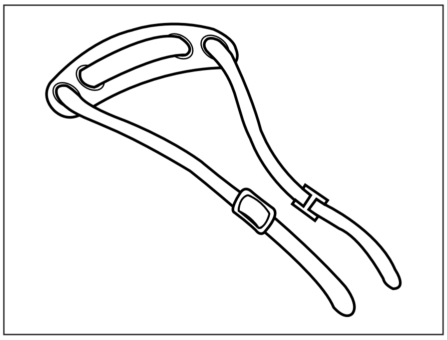

SAMSUNG
START
/STOP
T
W
REW
F.F
DISPLAY
STOP
PLAY
SELF TIMER
STILL

8



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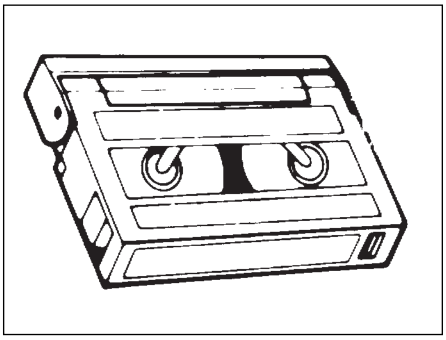

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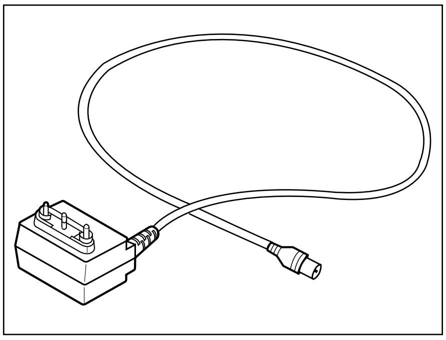

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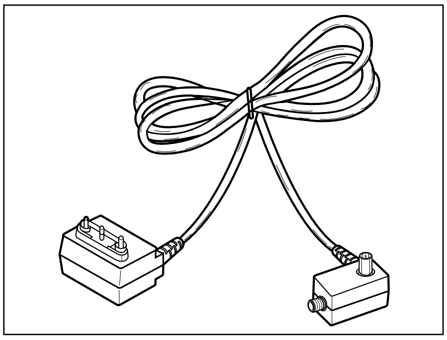


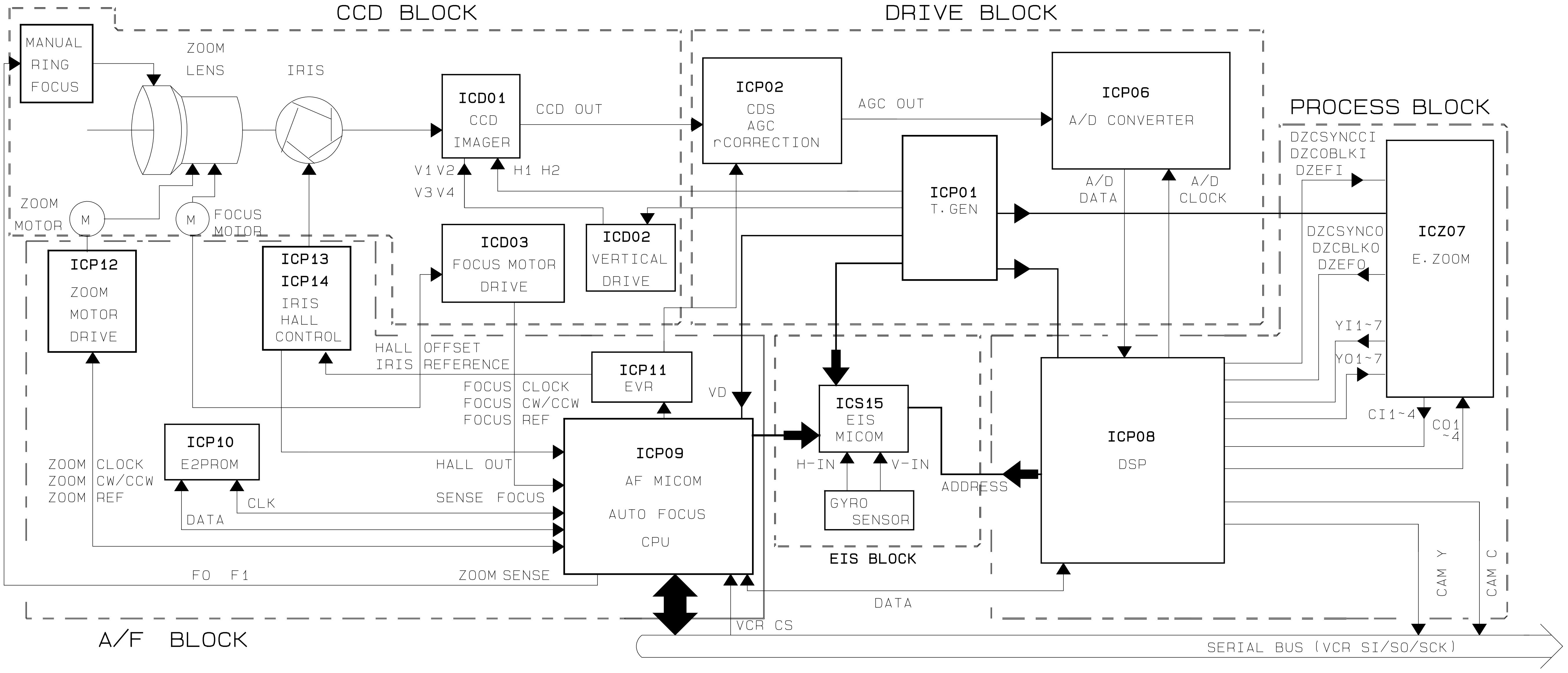
Note : The accessories may be different by buyer.

8. Block Diagrams

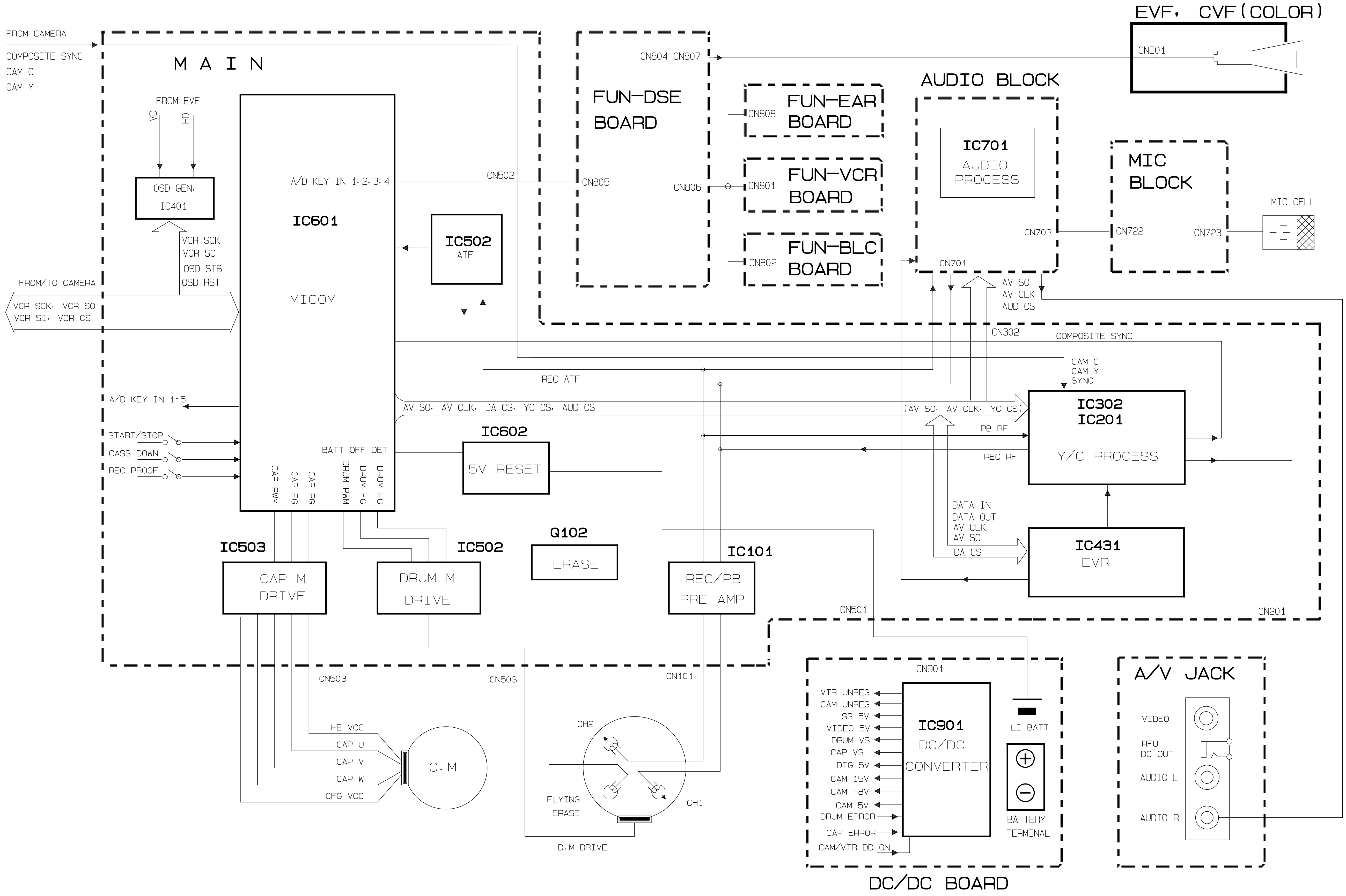
Page

8-1 Overall Block Diagram (Camera) - - - - - - - - - - - - - 8-2
8-2 Overall Block Diagram (VCR) - - - - - - - - - - - - - - - 8-3
8-3 DC/DC Converter - 8-4
8-4 Drum Servo - 8-5
8-5 Capstan Servo - 8-6
8-6 Video Playback - 8-7
8-7 Video Record - 8-8
8-8 Audio(Mono) - 8-9
8-9 Audio (Stereo) - 8-10
8-10 Camera Main/CCD - 8-11

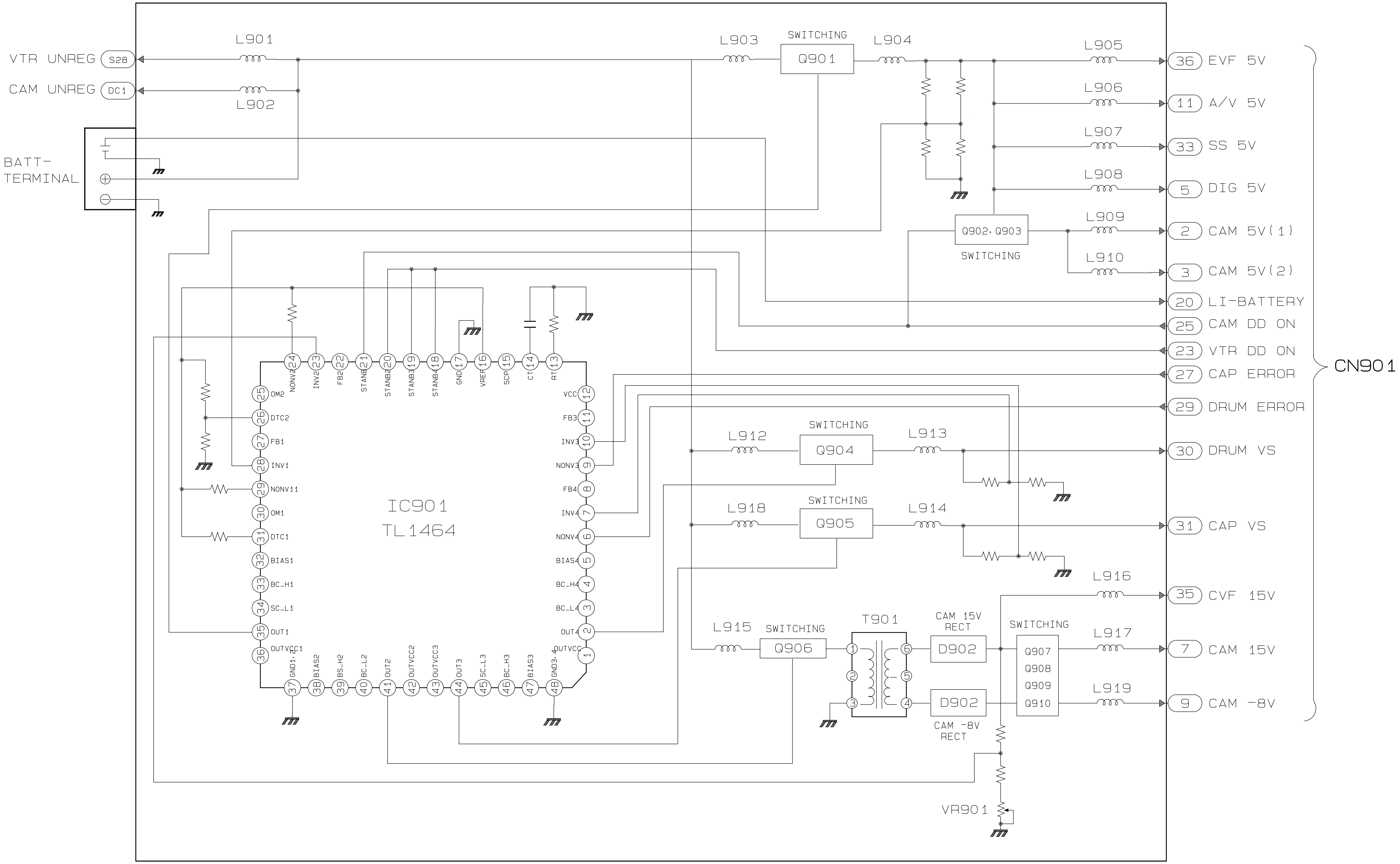
8-1 Overall Block Diagram (Camera)


CCD BLOCK
DRIVE BLOCK
PROCESS BLOCK
A/F BLOCK
EIS BLOCK
MANUAL RING FOCUS
ZOOM LENS
IRIS
ICD01 CCD IMAGER
CCD OUT
ICP02 CDS AGC rCORRECTION
AGC OUT
ICP06 A/D CONVERTER
V1 V2
V3 V4
H1 H2
ZOOM MOTOR
M
FOCUS MOTOR
ICP01 T.GEN
A/D DATA
A/D CLOCK
DZCSYNCCI
DZCOBLKI
DZEFI
DZCSYNCO
DZCBLKO
DZEFO
ICZ07 E.ZOOM
YI1~7
YO1~7
CI1~4
CO1 ~4
ICP12 ZOOM MOTOR DRIVE
ICP13 ICP14 IRIS HALL CONTROL
ICD03 FOCUS MOTOR DRIVE
ICD02 VERTICAL DRIVE
HALL IRIS
OFFSET REFERENCE
ICP11 EVR
FOCUS CLOCK
FOCUS CW/CCW
FOCUS REF
VD
ICS15 EIS MICOM
H-IN
V-IN
GYRO SENSOR
ADDRESS
ICP08 DSP
ICP10 E2PROM
ZOOM CLOCK
ZOOM CW/CCW
ZOOM REF
CLK
DATA
HALL OUT
SENSE FOCUS
ICP09 AF MICOM AUTO FOCUS CPU
FO F1
ZOOM SENSE
DATA
VCR CS
CAM Y
CAM C
SERIAL BUS (VCR SI/SO/SCK)

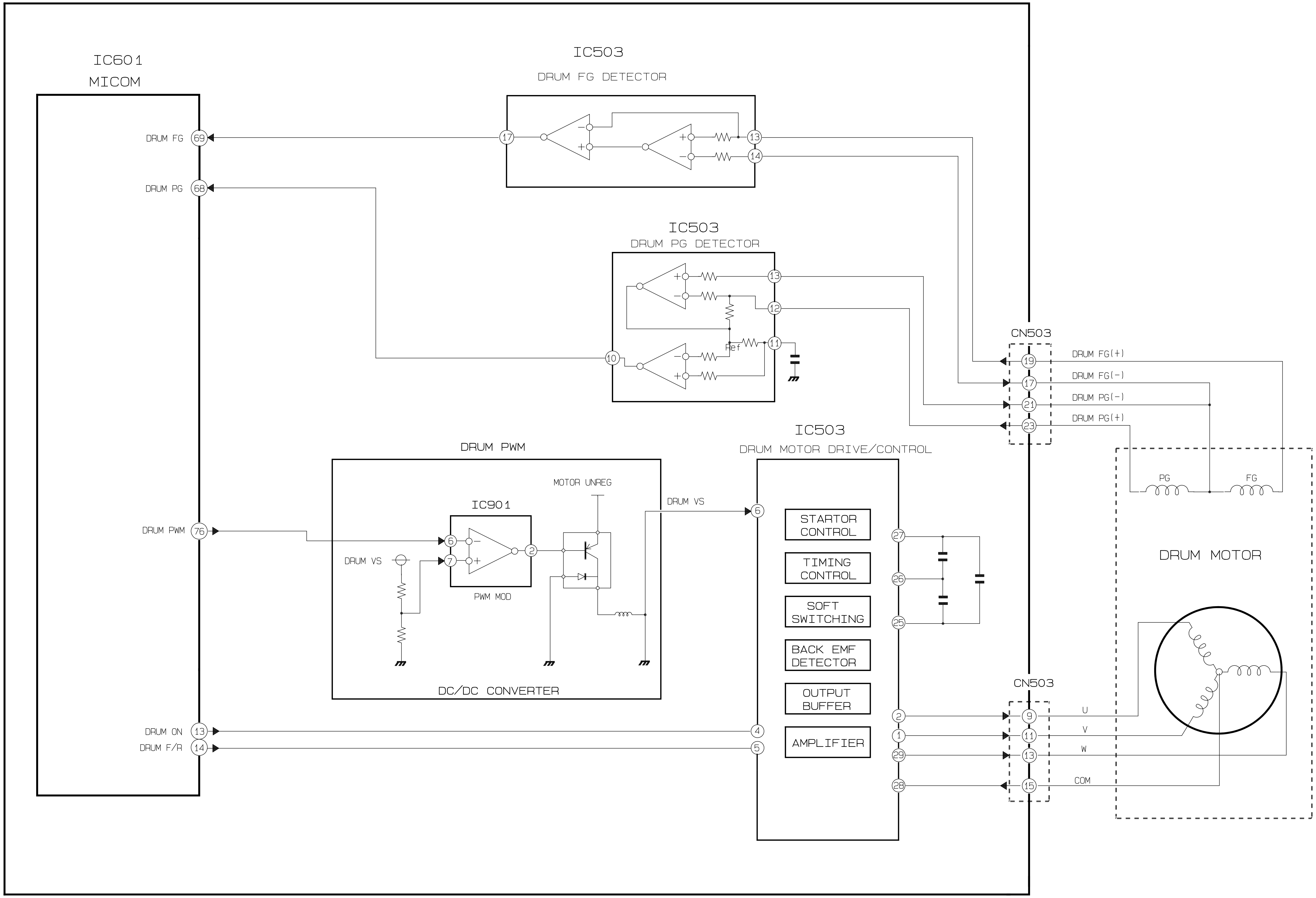
8-2 Overall Block Diagram (VCR)


FROM CAMERA
COMPOSITE SYNC
CAM C
CAM Y
M A I N
FROM EVF
VD
HD
OSD GEN.
IC401
VCR SCK
VCR SO
OSD STB
OSD RST
FROM/TO CAMERA
VCR SCK, VCR SO
VCR SI, VCR CS
A/D KEY IN 1,2,3,4
IC601
MICOM
IC502
ATF
CN502
A/D KEY IN 1~5
START/STOP
CASS DOWN
REC PROOF
BATT OFF DET
CAP PWM
CAP FG
CAP PG
DRUM PWM
DRUM FG
DRUM PG
IC602
5V RESET
REC ATF
AV SO, AV CLK, DA CS, YC CS, AUD CS
IC503
CAP M
DRIVE
IC502
DRUM M
DRIVE
Q102
ERASE
IC101
REC/PB
PRE AMP
CN503
CN503
CN101
HE VCC
CAP U
CAP V
CAP W
CFG VCC
C.M
CH2
FLYING
ERASE
CH1
D.M DRIVE
CN804 CN807
FUN-DSE
BOARD
CN805
CN806
CN808
FUN-EAR
BOARD
CN801
FUN-VCR
BOARD
CN802
FUN-BLC
BOARD
AUDIO BLOCK
IC701
AUDIO
PROCESS
CN703
CN701
AV SO
AV CLK
AUD CS
EVF, CVF(COLOR)
CNE01
MIC
BLOCK
CN722
CN723
MIC CELL
CN302
COMPOSITE SYNC
CAM C
CAM Y
SYNC
(AV SO, AV CLK, YC CS)
PB RF
REC RF
IC302
IC201
Y/C PROCESS
DATA IN
DATA OUT
AV CLK
AV SO
DA CS
IC431
EVR
CN501
CN201
CN901
VTR UNREG
CAM UNREG
SS 5V
VIDEO 5V
DRUM VS
CAP VS
DIG 5V
CAM 15V
CAM -8V
CAM 5V
DRUM ERROR
CAP ERROR
CAM/VTR DD ON
IC901
DC/DC
CONVERTER
LI BATT
+
−
BATTERY
TERMINAL
DC/DC BOARD
A/V JACK
VIDEO
RFU
DC OUT
AUDIO L
AUDIO R

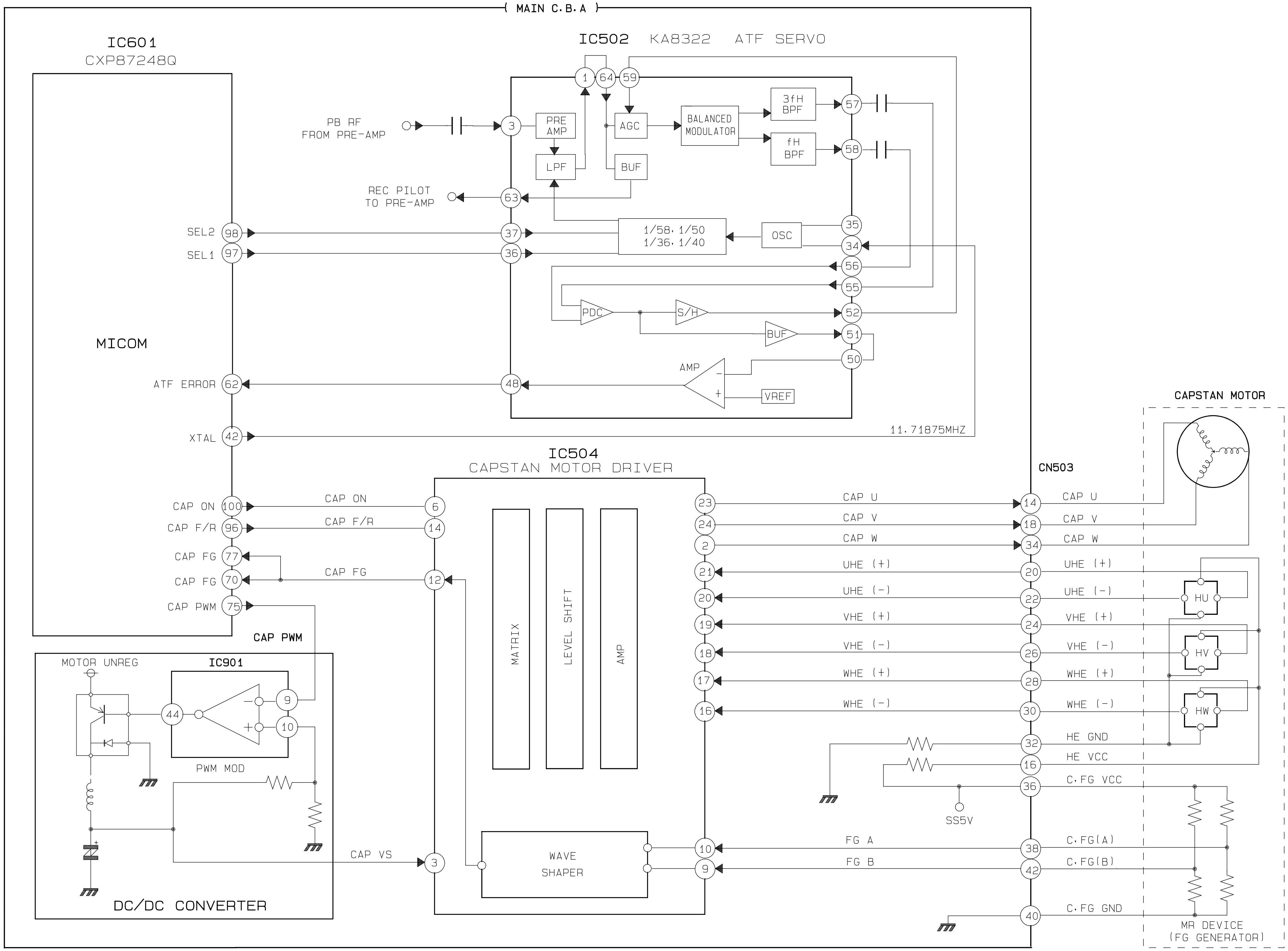
8-3 DC/DC Converter


VTR UNREG
S28
CAM UNREG
DC1
BATT-TERMINAL
L901
L902
L903
SWITCHING
Q901
L904
L905
L906
L907
L908
L909
L910
Q902, Q903
SWITCHING
36 EVF 5V
11 A/V 5V
33 SS 5V
5 DIG 5V
2 CAM 5V(1)
3 CAM 5V(2)
20 LI-BATTERY
25 CAM DD ON
23 VTR DD ON
27 CAP ERROR
29 DRUM ERROR
30 DRUM VS
31 CAP VS
35 CVF 15V
7 CAM 15V
9 CAM -8V
CN901
IC901
TL1464
24 NONV2
23 INV2
22 FB2
21 STANB1
20 STANB2
19 STANB3
18 STANB4
17 GND
16 VREF
15 SCP
14 CT
13 RT
25 OM2
26 DTC2
27 FB1
28 INV1
29 NONV11
30 OM1
31 DTC1
32 BIAS1
33 BC_H1
34 SC_L1
35 OUT1
36 OUTVCC1
12 VCC
11 FB3
10 INV3
9 NONV3
8 FB4
7 INV4
6 NONV4
5 BIAS4
4 BC_H4
3 BC_L4
2 OUT4
1 OUTVCC4
37 GND1.2
38 BIAS2
39 BS_H2
40 BC_L2
41 OUT2
42 OUTVCC2
43 OUTVCC3
44 OUT3
45 SC_L3
46 BC_H3
47 BIAS3
48 GND3.4
L912
SWITCHING
Q904
L913
L918
SWITCHING
Q905
L914
L916
L915
SWITCHING
Q906
T901
1
2
3
6
5
4
CAM 15V RECT
D902
D902
CAM -8V RECT
SWITCHING
Q907
Q908
Q909
Q910
L917
L919
VR901

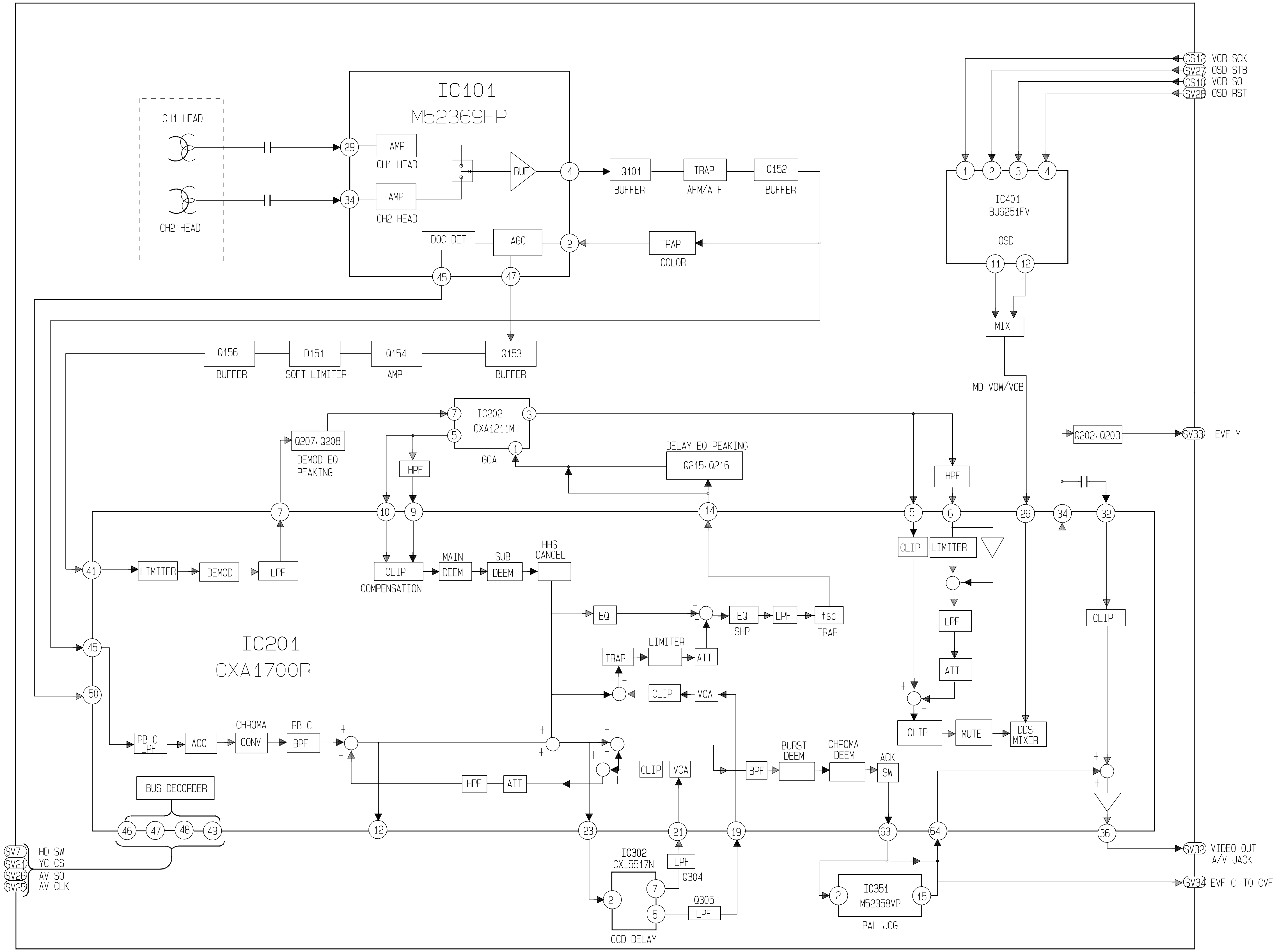
8-4 Drum Servo


IC601
MICOM
DRUM FG
69
DRUM PG
68
DRUM PWM
76
DRUM ON
13
DRUM F/R
14
IC503
DRUM FG DETECTOR
17
13
14
IC503
DRUM PG DETECTOR
13
12
11
10
Ref
DRUM PWM
MOTOR UNREG
IC901
6
7
2
DRUM VS
PWM MOD
DC/DC CONVERTER
DRUM VS
IC503
DRUM MOTOR DRIVE/CONTROL
6
STARTOR CONTROL
TIMING CONTROL
SOFT SWITCHING
BACK EMF DETECTOR
OUTPUT BUFFER
AMPLIFIER
27
26
25
2
1
29
28
4
5
CN503
19
17
21
23
DRUM FG(+)
DRUM FG(-)
DRUM PG(-)
DRUM PG(+)
PG
FG
DRUM MOTOR
CN503
9
11
13
15
U
V
W
COM

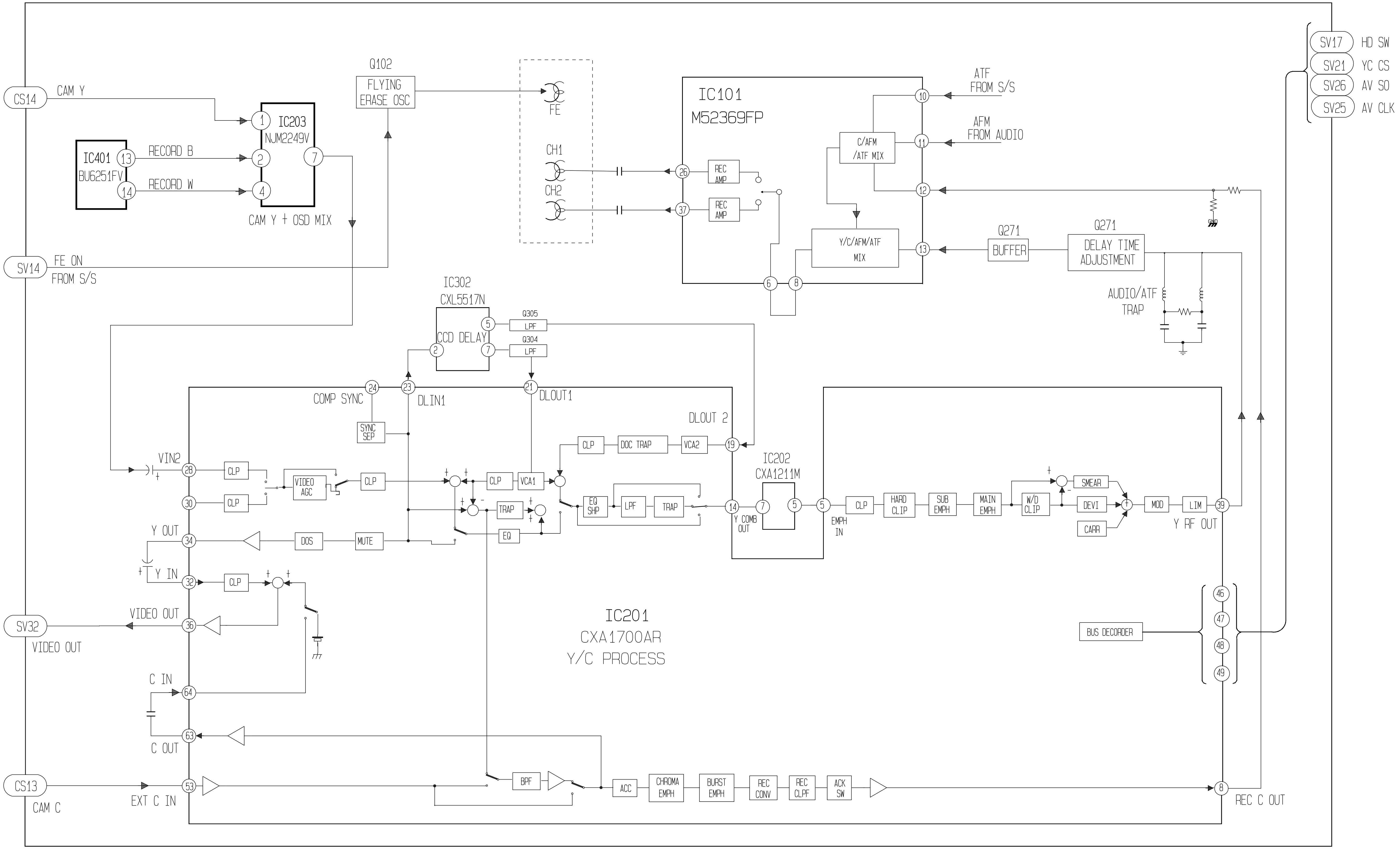
8-5 Capstan Servo


MAIN C.B.A
IC601
CXP87248Q
MICOM
SEL2
SEL1
ATF ERROR
XTAL
CAP ON
CAP F/R
CAP FG
CAP FG
CAP PWM
IC502 KA8322 ATF SERVO
PB RF
FROM PRE-AMP
REC PILOT
TO PRE-AMP
PRE AMP
LPF
AGC
BUF
BALANCED MODULATOR
3fH BPF
fH BPF
1/58, 1/50
1/36, 1/40
OSC
PDC
S/H
BUF
AMP
VREF
11.71875MHZ
IC504
CAPSTAN MOTOR DRIVER
CAP ON
CAP F/R
CAP FG
MATRIX
LEVEL SHIFT
AMP
WAVE SHAPER
CAP VS
CAP PWM
IC901
MOTOR UNREG
PWM MOD
DC/DC CONVERTER
CN503
CAP U
CAP V
CAP W
UHE (+)
UHE (-)
VHE (+)
VHE (-)
WHE (+)
WHE (-)
HE GND
HE VCC
C.FG VCC
SS5V
FG A
FG B
C.FG(A)
C.FG(B)
C.FG GND
CAPSTAN MOTOR
HU
HV
HW
MR DEVICE
(FG GENERATOR)

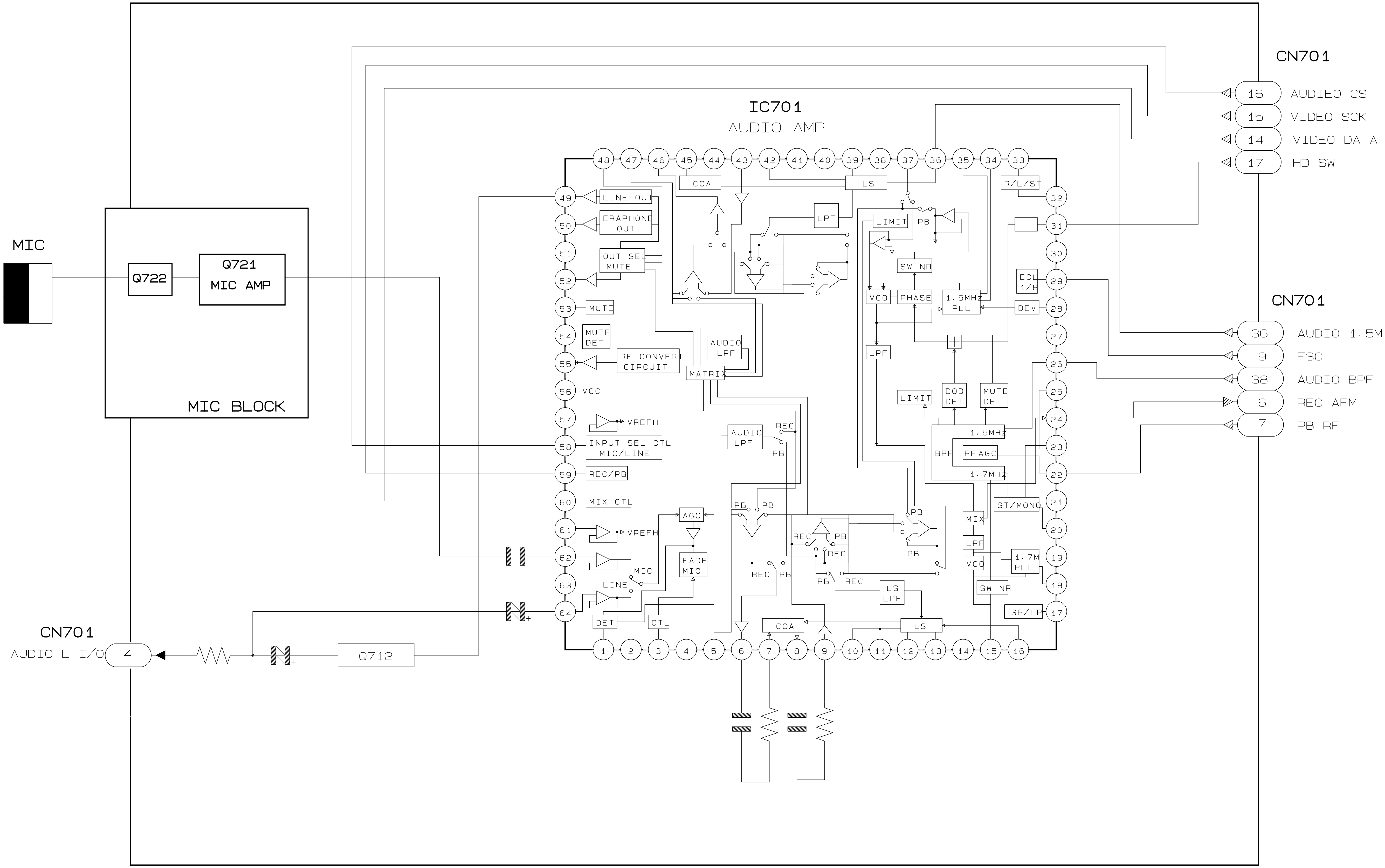
8-6 Video Playback


IC101
M52369FP
CH1 HEAD
CH2 HEAD
29
34
AMP
CH1 HEAD
AMP
CH2 HEAD
BUF
4
2
DOC DET
AGC
45
47
Q101
BUFFER
TRAP
AFM/ATF
Q152
BUFFER
TRAP
COLOR
Q156
BUFFER
D151
SOFT LIMITER
Q154
AMP
Q153
BUFFER
IC202
CXA1211M
GCA
7
5
3
1
Q207, Q208
DEMOD EQ
PEAKING
HPF
DELAY EQ PEAKING
Q215, Q216
IC201
CXA1700R
41
LIMITER
DEMOD
LPF
7
10
9
CLIP
COMPENSATION
MAIN
DEEM
SUB
DEEM
HHS
CANCEL
14
EQ
EQ
SHP
LPF
fsc
TRAP
TRAP
LIMITER
ATT
CLIP
VCA
45
50
PB C
LPF
ACC
CHROMA
CONV
PB C
BPF
HPF
ATT
CLIP
VCA
BPF
BURST
DEEM
CHROMA
DEEM
ACK
SW
BUS DECORDER
46
47
48
49
12
23
21
19
63
64
36
SV7 HD SW
SV21 YC CS
SV26 AV SO
SV25 AV CLK
IC302
CXL5517N
2
7
5
LPF
Q304
Q305
LPF
CCD DELAY
IC351
M52358VP
2
15
PAL JOG
CS12 VCR SCK
SV27 OSD STB
CS10 VCR SO
SV28 OSD RST
1
2
3
4
IC401
BU6251FV
OSD
11
12
MIX
MD VOW/VOB
HPF
5
6
26
34
32
CLIP
LIMITER
LPF
ATT
CLIP
MUTE
DDS
MIXER
CLIP
Q202, Q203
SV33 EVF Y
SV32 VIDEO OUT
A/V JACK
SV34 EVF C TO CVF

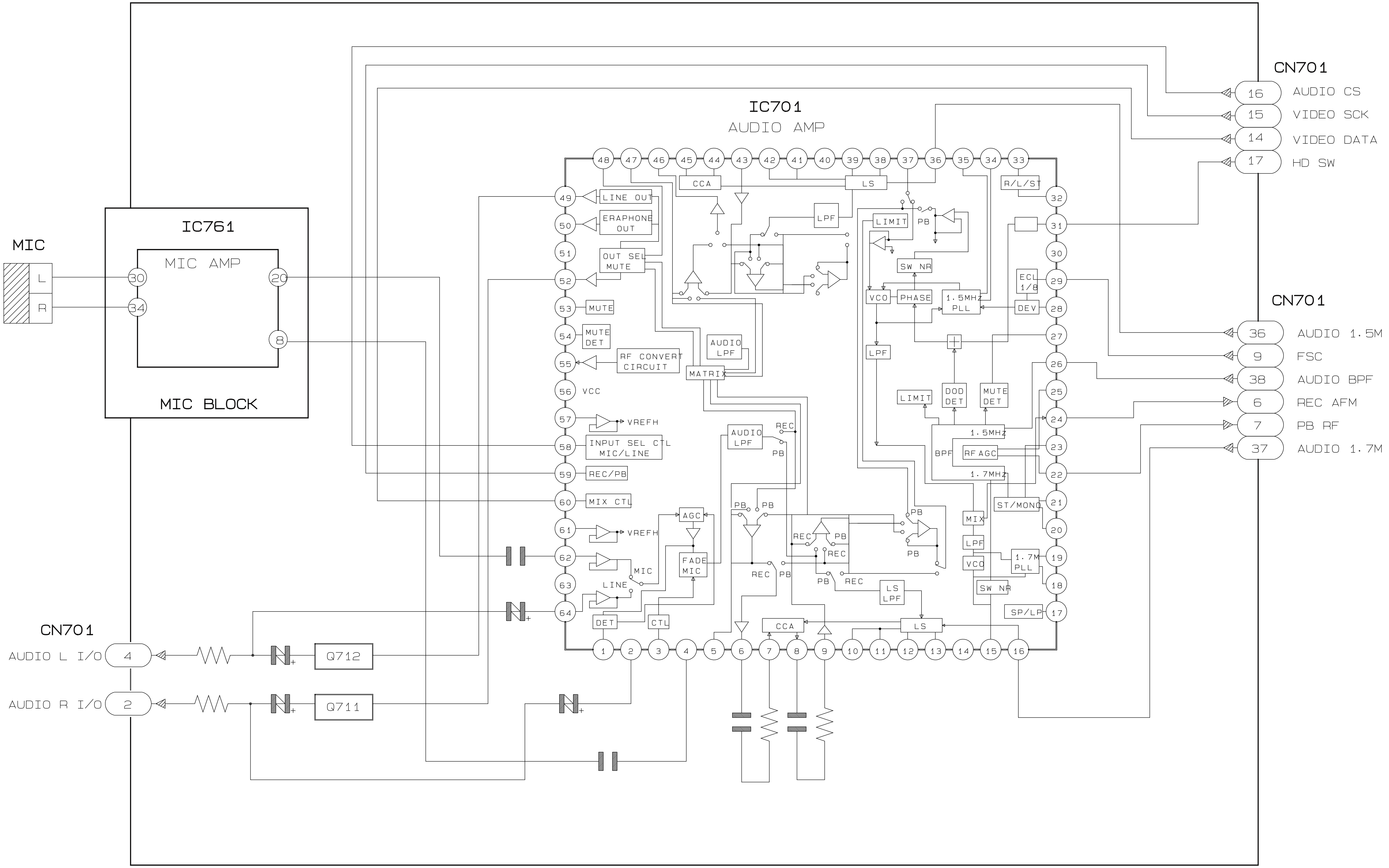
8-7 Video Record


SV17
HD SW
SV21
YC CS
SV26
AV SO
SV25
AV CLK
Q102
FLYING ERASE OSC
FE
CH1
CH2
IC101
M52369FP
10
ATF FROM S/S
11
AFM FROM AUDIO
C/AFM /ATF MIX
REC AMP
REC AMP
26
37
12
Y/C/AFM/ATF MIX
13
6
8
Q271
BUFFER
Q271
DELAY TIME ADJUSTMENT
AUDIO/ATF TRAP
CS14
CAM Y
IC203
NJM2249V
1
2
4
7
IC401
BU6251FV
13
14
RECORD B
RECORD W
CAM Y + OSD MIX
SV14
FE ON
FROM S/S
IC302
CXL5517N
CCD DELAY
5
7
2
Q305
LPF
Q304
LPF
24
COMP SYNC
23
DLIN1
21
DLOUT1
DLOUT 2
SYNC SEP
VIN2
28
30
CLP
CLP
VIDEO AGC
CLP
CLP
VCA1
TRAP
EQ
CLP
DOC TRAP
VCA2
19
EQ SHP
LPF
TRAP
14
Y COMB OUT
IC202
CXA1211M
7
5
5
EMPH IN
CLP
HARD CLIP
SUB EMPH
MAIN EMPH
W/D CLIP
SMEAR
DEVI
CARR
MOD
LIM
39
Y RF OUT
Y OUT
34
DOS
MUTE
Y IN
32
CLP
SV32
VIDEO OUT
36
VIDEO OUT
IC201
CXA1700AR
Y/C PROCESS
BUS DECORDER
46
47
48
49
C IN
64
63
C OUT
CS13
CAM C
EXT C IN
53
BPF
ACC
CHROMA EMPH
BURST EMPH
REC CONV
REC CLPF
ACK SW
8
REC C OUT

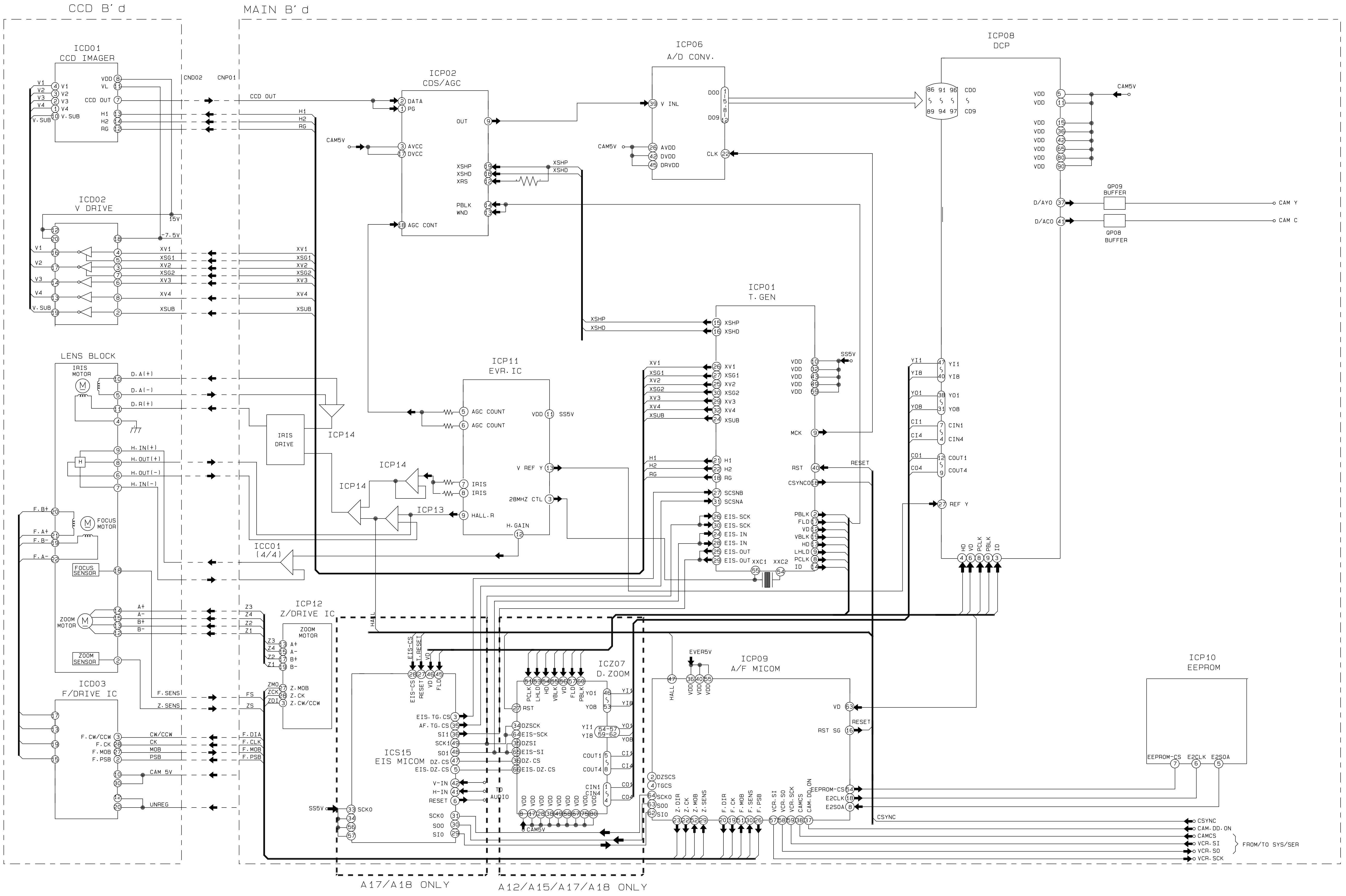
8-8 Audio (Mono)


CN701
16 AUDIEO CS
15 VIDEO SCK
14 VIDEO DATA
17 HD SW
CN701
36 AUDIO 1.5M
9 FSC
38 AUDIO BPF
6 REC AFM
7 PB RF
MIC
Q722
Q721
MIC AMP
MIC BLOCK
CN701
AUDIO L I/O
4
Q712
IC701
AUDIO AMP
LINE OUT
ERAPHONE OUT
OUT SEL MUTE
MUTE
MUTE DET
RF CONVERT CIRCUIT
VCC
VREFH
INPUT SEL CTL MIC/LINE
REC/PB
MIX CTL
VREFH
MIC
LINE
DET
CTL
AGC
FADE MIC
CCA
LS
LPF
AUDIO LPF
MATRIX
AUDIO LPF
REC
PB
PB
PB
REC
PB
REC
PB
REC
PB
REC
PB
PB
REC
LS LPF
CCA
LS
LIMIT
PB
SW NR
VCO
PHASE
1.5MHz PLL
R/L/ST
ECL 1/8
DEV
LPF
LIMIT
DOD DET
MUTE DET
1.5MHz
BPF
RF AGC
1.7MHz
ST/MONO
MIX
LPF
VCO
1.7M PLL
SW NR
SP/LP

8-9 Audio (Stereo)


CN701
16 AUDIO CS
15 VIDEO SCK
14 VIDEO DATA
17 HD SW
IC701
AUDIO AMP
IC761
MIC AMP
MIC BLOCK
MIC
L
R
30
34
20
8
CN701
36 AUDIO 1.5M
9 FSC
38 AUDIO BPF
6 REC AFM
7 PB RF
37 AUDIO 1.7M
CN701
AUDIO L I/O 4
AUDIO R I/O 2
Q712
Q711
LINE OUT
ERAPHONE OUT
OUT SEL MUTE
MUTE
MUTE DET
RF CONVERT CIRCUIT
VCC
VREFH
INPUT SEL CTL MIC/LINE
REC/PB
MIX CTL
VREFH
MIC
LINE
CCA
LS
LPF
LIMIT
PB
SW NR
VCO
PHASE
1.5MHZ PLL
R/L/ST
ECL 1/8
DEV
AUDIO LPF
MATRIX
LPF
LIMIT
DOD DET
MUTE DET
1.5MHZ
BPF
RF AGC
1.7MHZ
ST/MONO
MIX
LPF
VCO
1.7M PLL
SW NR
SP/LP
AUDIO LPF
REC
PB
AGC
FADE MIC
DET
CTL
REC
PB
CCA
LS
LS LPF
REC
PB

8-10 Camera Main/CCD


CCD B'd
MAIN B'd
ICD01
CCD IMAGER
ICD02
V DRIVE
LENS BLOCK
IRIS MOTOR
FOCUS MOTOR
FOCUS SENSOR
ZOOM MOTOR
ZOOM SENSOR
ICD03
F/DRIVE IC
CND02
CNP01
ICP02
CDS/AGC
ICP06
A/D CONV.
ICP08
DCP
QP09 BUFFER
QP08 BUFFER
CAM Y
CAM C
ICP01
T.GEN
ICP11
EVR.IC
IRIS DRIVE
ICP14
ICP13
ICC01 (4/4)
ICP12
Z/DRIVE IC
ZOOM MOTOR
ICS15
EIS MICOM
ICZ07
D.ZOOM
ICP09
A/F MICOM
ICP10
EEPROM
CAM5V
SS5V
EVER5V
CSYNC
CAM.DD.ON
CAMCS
VCR.SI
VCR.SO
VCR.SCK
FROM/TO SYS/SER
A17/A18 ONLY
A12/A15/A17/A18 ONLY

9. PCB Diagrams

Page

9-1 Main ---------------------------------- 9-2

9-2 DC/DC Converter ------------------------ 9-4

9-3 Audio (Mono) -------------------------- 9-6

9-4 Audio (Stereo) ------------------------- 9-7

9-5 MIC (Mono) ---------------------------- 9-8

9-6 MIC (Stereo) --------------------------- 9-8

9-7 CCD ---------------------------------- 9-9

9-8 Function DSE --------------------------- 9-10

9-9 Function BLC --------------------------- 9-11

9-10 Function EAR -------------------------- 9-11

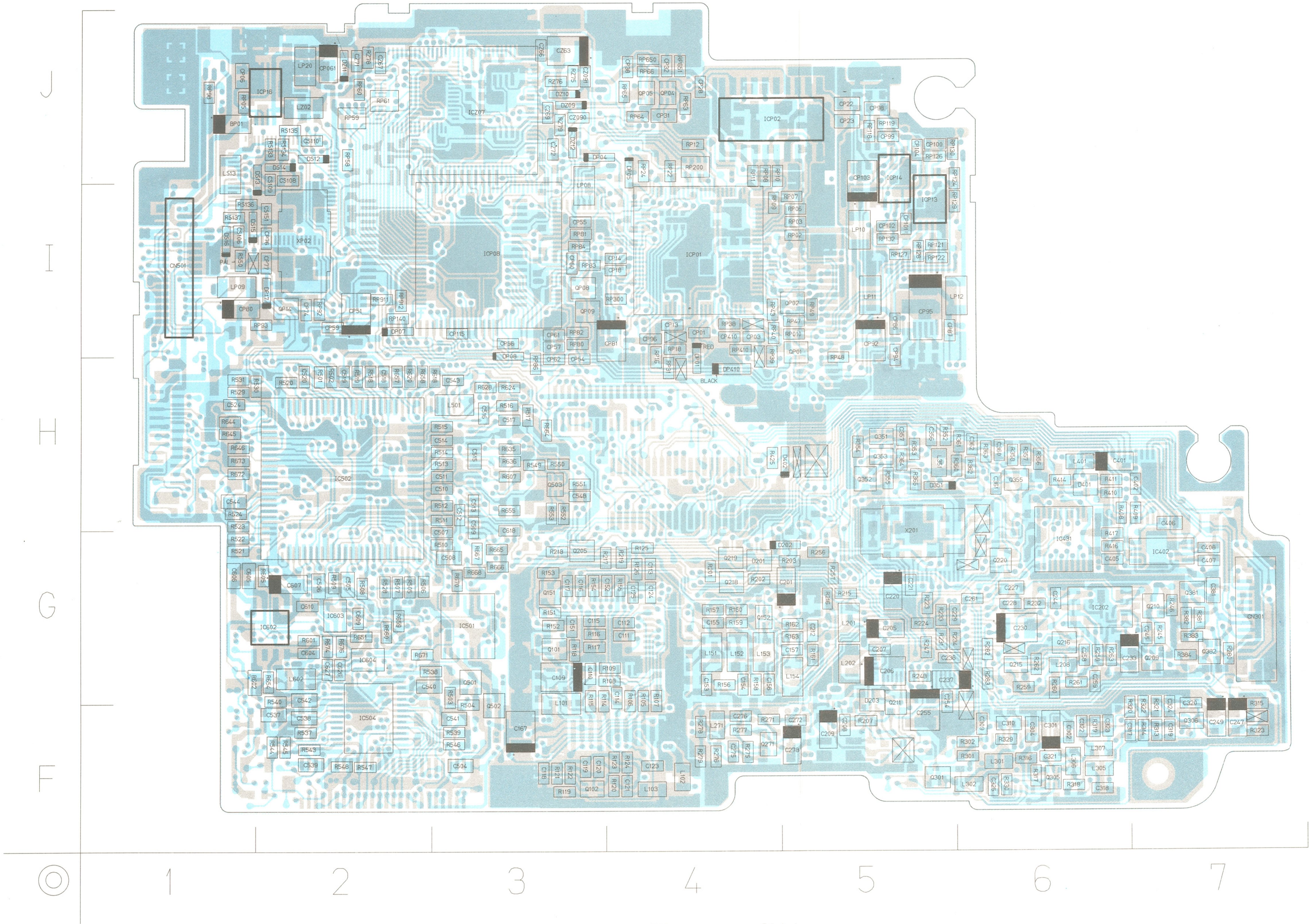
9-11 Function VCR -------------------------- 9-12

9-12 EVF (VP-A12/VP-A17) ------------------ 9-12

9-13 CVF (VP-A15/VP-A18) ------------------ 9-13

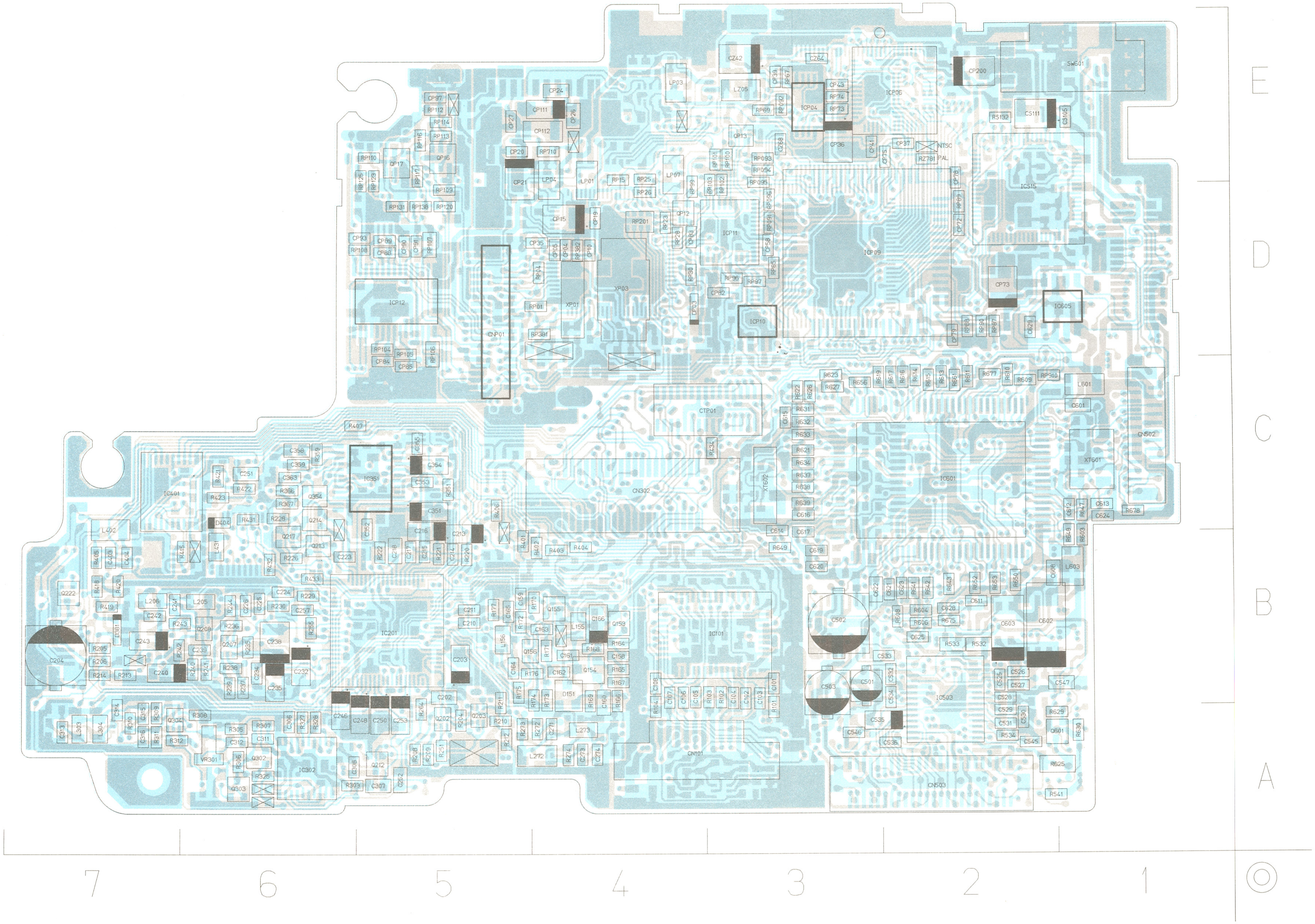
9-14 Back Light (VP-A15/VP-A18) -------------- 9-13

9-1 Main


J
I
H
G
F
1
2
3
4
5
6
7
CN501
CN301
ICP01
ICP02
ICP08
ICP13
ICP14
ICP16
ICZ07
IC502
IC501
IC504
IC602
IC603
IC604
IC202
IC402
IC431
XP02

(Component Side)

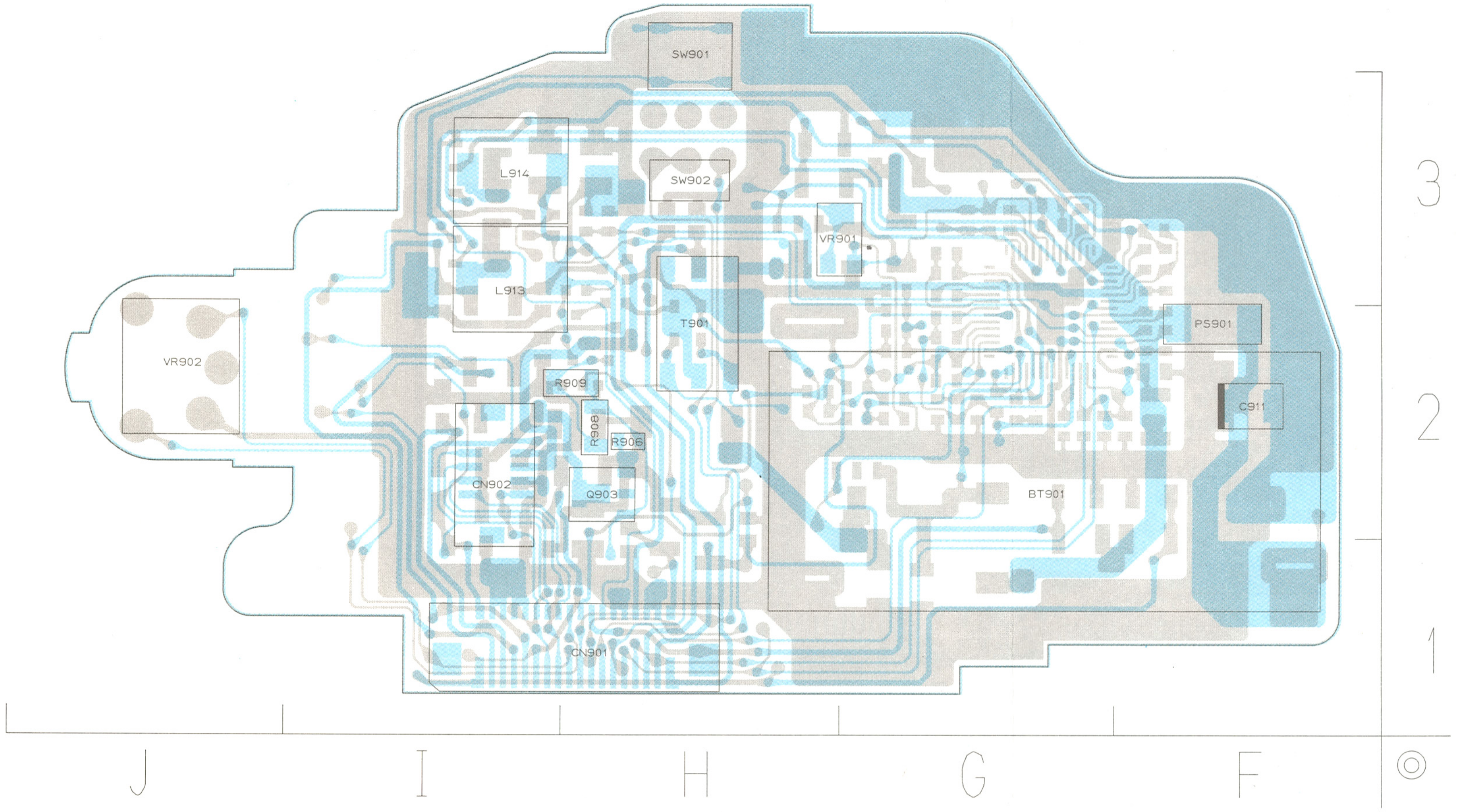
LOCATION	COORDINATES
CN301	7-G
CN501	1-I
IC202	6-G
IC402	7-G
IC431	6-G
IC501	3-G
IC502	2-H
IC504	2-F
IC602	2-G
IC603	2-G
IC604	2-G
ICP01	4-I
ICP02	4-J
ICP08	3-I
ICP13	5-I
ICP14	5-J
ICP16	2-J
ICZ07	3-J
Q102	3-F
Q151	3-G
Q152	4-G
Q205	3-G
Q209	7-G
Q210	7-G
Q211	5-G
Q215	6-G
Q216	6-G
Q218	4-G
Q219	4-G
Q220	6-G
Q271	4-F
Q301	5-F
Q305	6-F
Q306	7-F
Q351	5-H
Q352	5-H
Q353	5-H
Q355	6-H
Q381	7-G
Q382	7-G
Q501	3-G
Q502	3-F
Q503	3-H
QP01	5-I
QP02	5-I
QP04	4-J
QP05	4-J
QP08	3-I
QP09	3-I
QP14	2-I
XP02	2-I



(Component Side)

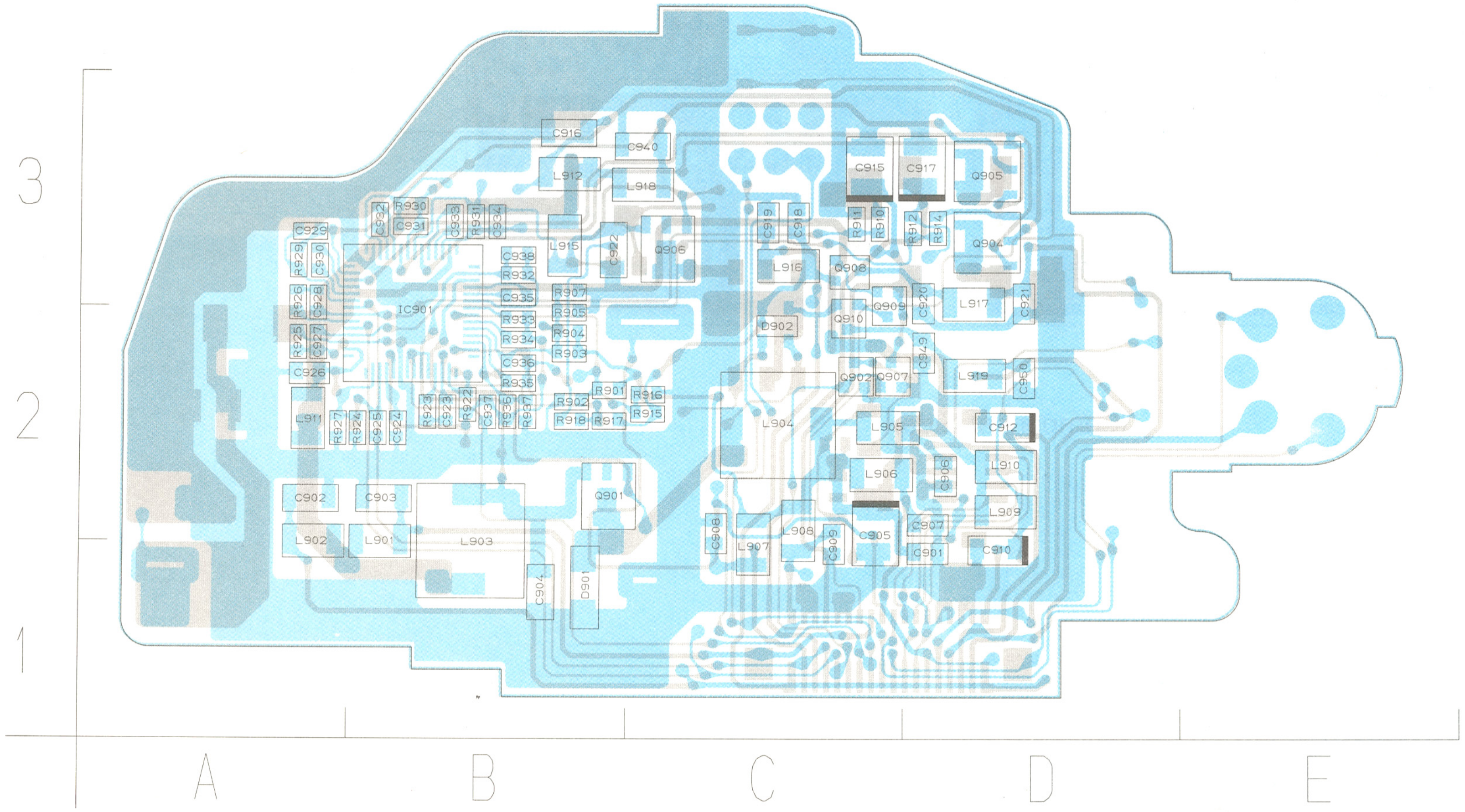
LOCATION	COORDINATES
CN101	4-A
CN302	4-C
CN502	1-C
CN503	2-A
CNP01	5-D
CTP01	3-C
IC101	3-B
IC201	5-B
IC302	6-A
IC351	5-C
IC401	7-C
IC503	2-A
IC601	2-C
IC605	1-D
ICP04	3-E
ICP06	2-E
ICP09	3-D
ICP10	3-D
ICP11	3-D
ICP12	5-D
ICS15	2-D
Q154	4-B
Q155	4-B
Q156	5-B
Q202	5-A
Q203	5-A
Q207	6-B
Q208	6-B
Q212	5-A
Q213	6-B
Q214	6-C
Q217	6-B
Q222	7-B
Q302	6-A
Q303	6-A
Q304	7-A
Q354	6-C
Q601	2-A
QP12	4-D
QP13	3-E
QP16	5-E
QP17	5-E
SW601	1-E
VR301	6-A
XP01	4-D
XP03	4-D
XT601	1-C
XT602	3-C

9-2 DC/DC Converter


SW901
L914
SW902
VR901
L913
T901
PS901
VR902
R909
R908
R906
C911
CN902
Q903
BT901
CN901
3
2
1
J
I
H
G
F

LOCATION	COORDINATES
BT901	2-G
C911	2-F
CN901	1-H
CN902	2-I
L913	3-I
L914	3-I
PS901	2-F
SW901	3-H
SW902	3-H
T901	2-H
VR901	3-H
VR902	2-J

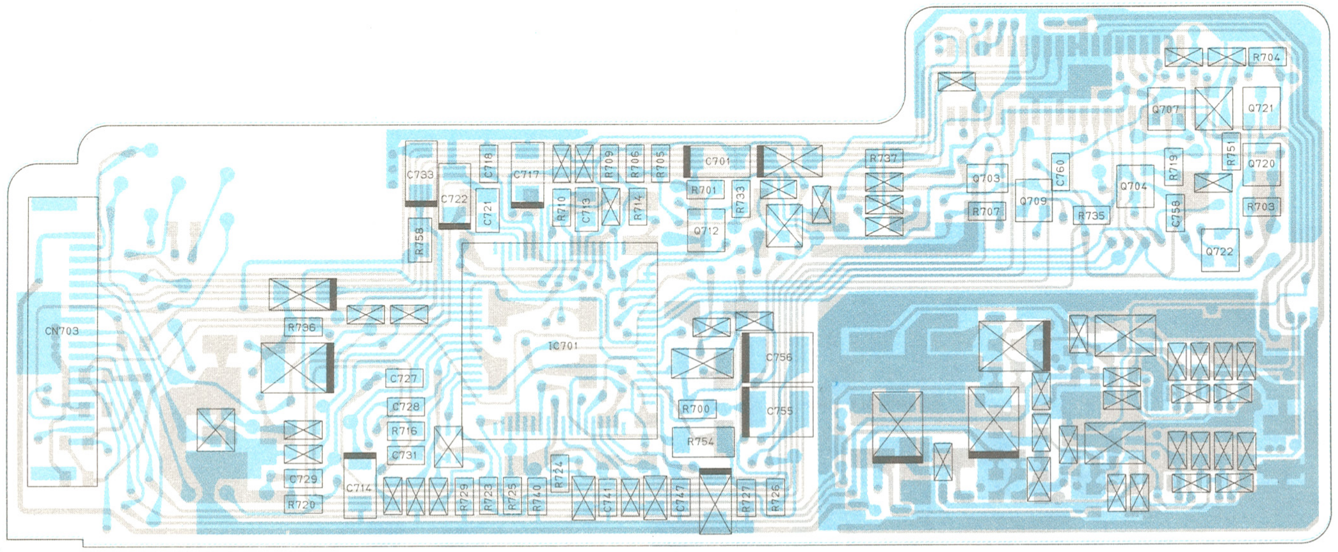
(Component Side)


3
2
1
A
B
C
D
E
C916
C940
L912
L918
C915
C917
Q905
R930
C931
C929
C938
R932
L915
C922
Q906
Q904
IC901
C935
R907
R905
R933
R904
R934
R903
C936
R936
L916
Q908
D902
Q910
Q909
L917
C926
R901
R916
R902
R918
R917
R915
Q902
Q907
L919
L911
L904
L905
C912
L906
L910
C902
C903
Q901
L909
L902
L901
L903
L908
C905
C907
L907
C901
C910
C904
D901

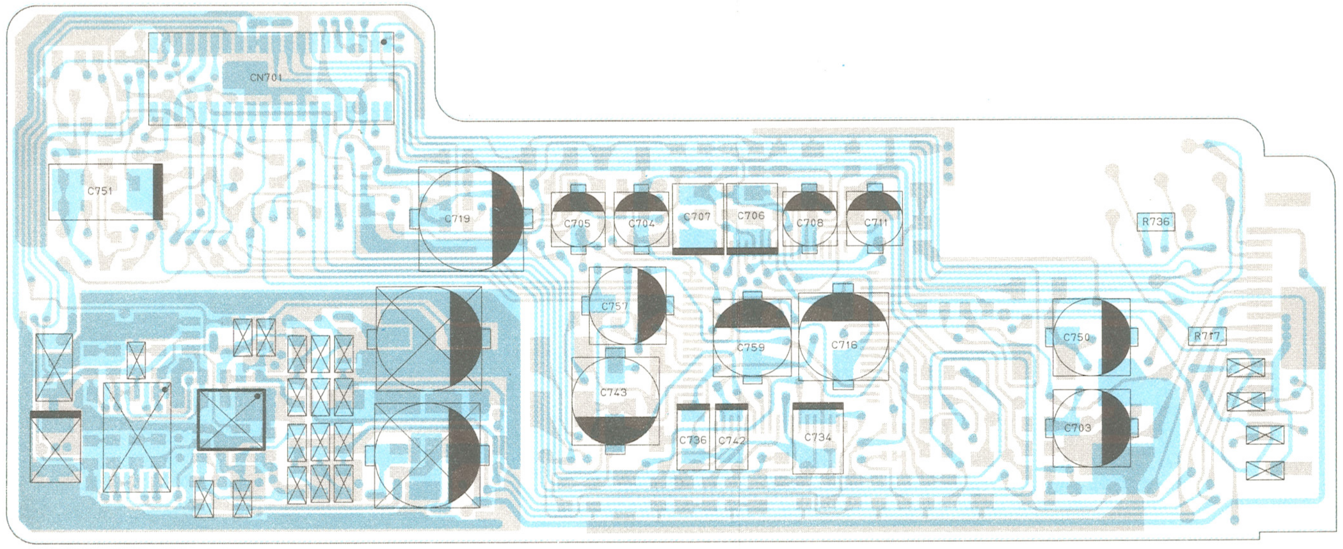
(Conductor Side)

LOCATION	COORDINATES
C904	1-B
C905	2-C
D901	1-B
D902	2-C
IC901	2-B
L901	1-B
L902	1-A
L903	1-B
L904	2-C
L905	2-C
L906	2-C
L907	1-C
L908	2-C
L909	2-D
L910	2-D
L911	2-A
L912	3-B
L915	3-B
L916	3-C
L917	3-D
L918	3-C
L919	2-D
Q901	2-B
Q902	2-C
Q904	3-D
Q905	3-D
Q906	3-C
Q907	2-C
Q908	3-C
Q909	2-C
Q910	2-C

9-3 Audio (Mono)

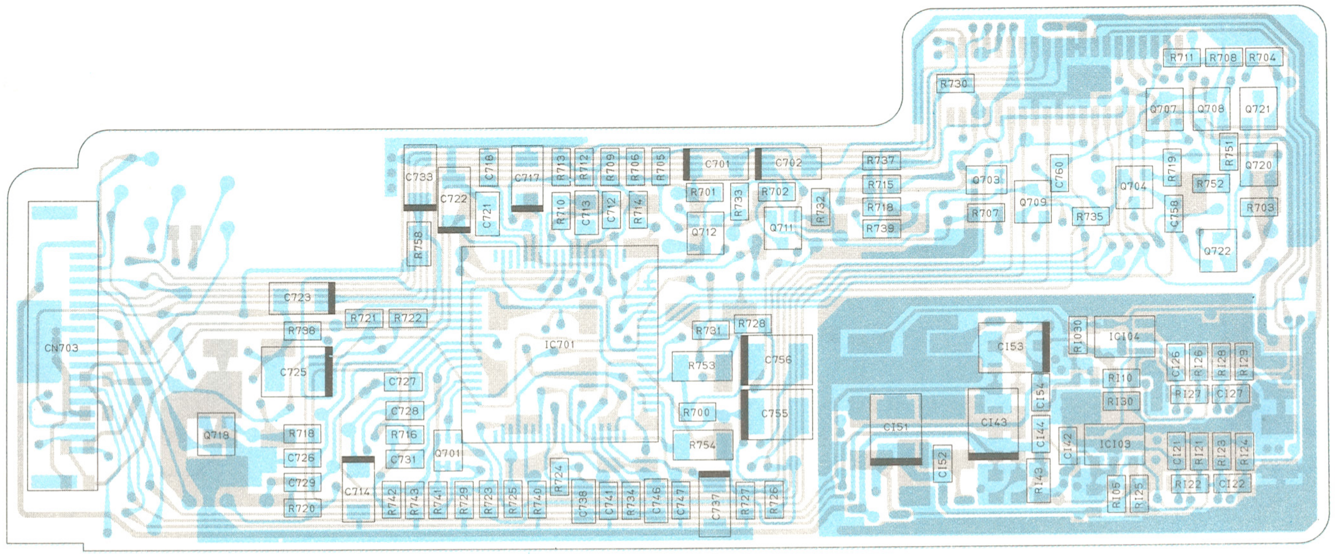

R704
Q707
Q721
R751
Q720
R719
Q704
R703
C758
Q722
Q703
R707
Q709
C760
R735
R737
C733
C722
C718
C717
C721
R758
R709
R706
R705
R710
C713
R714
C701
R701
R733
Q712
CN703
R736
IC701
C756
C755
R700
R754
C727
C728
R716
C731
C729
R720
C714
R729
R723
R725
R740
R724
C741
C747
R727
R726

(Component Side)

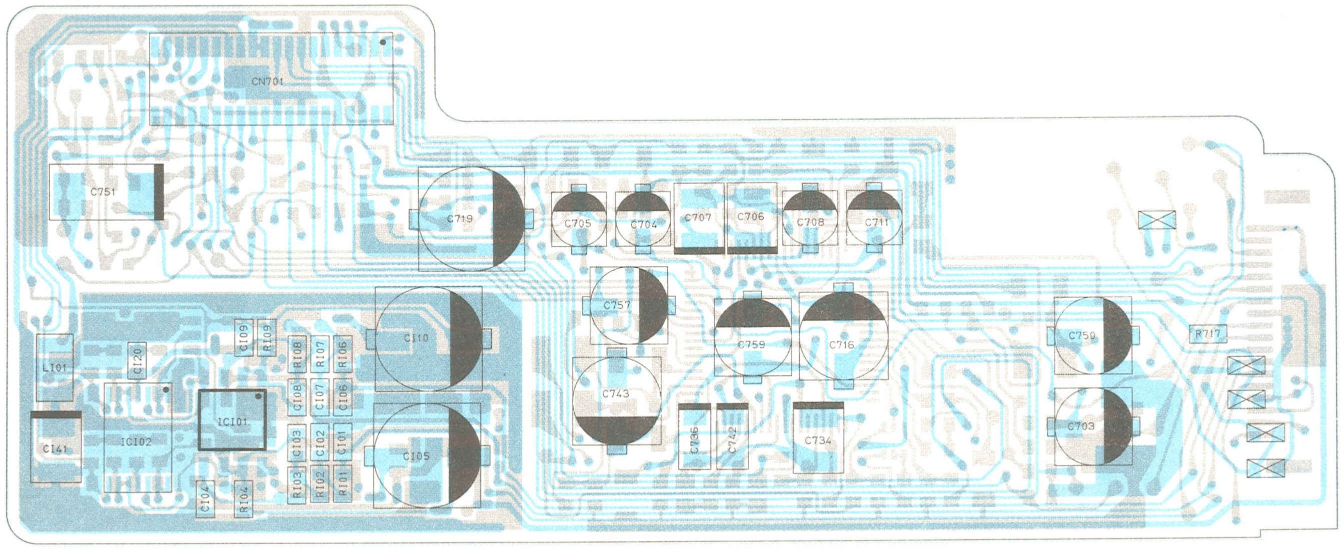

CN701
C751
C719
C705
C704
C707
C706
C708
C711
R736
C757
C759
C716
C750
R717
C743
C736
C742
C734
C703

(Component Side)

9-4 Audio (Stereo)

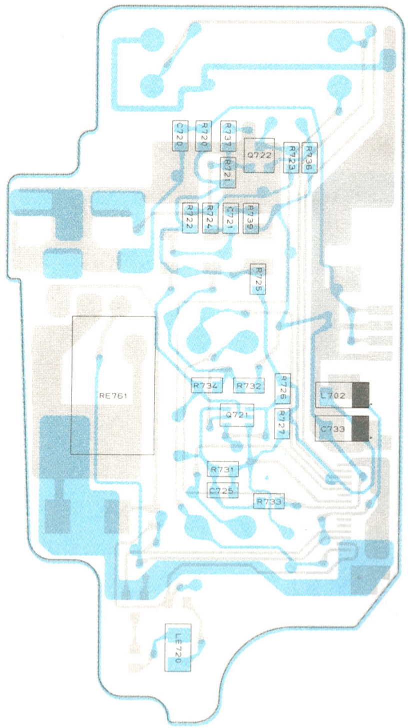

R711
R708
R704
R730
Q707
Q708
Q721
R751
Q720
C733
C718
C717
R713
R712
R709
R706
R705
C701
C702
R737
R715
R718
R739
Q703
R707
Q709
C760
Q704
R719
R752
R703
C758
R735
Q722
C722
C721
R710
C713
C712
R714
R701
R733
R702
R732
Q712
Q711
R758
C723
R721
R722
R738
CN703
C725
IC701
R731
R728
R753
C756
R700
C755
R754
C153
R1030
IC104
C126
R126
R128
R129
R110
R127
C127
R130
C154
C151
C143
C144
C142
IC103
C121
R121
R123
R124
C152
R143
R105
R125
R122
C122
C727
C728
R716
C731
Q701
Q718
R718
C726
C729
R720
C714
R742
R743
R741
R729
R723
R725
R740
R724
C738
C741
R734
C746
C747
C737
R727
R726

(Component Side)

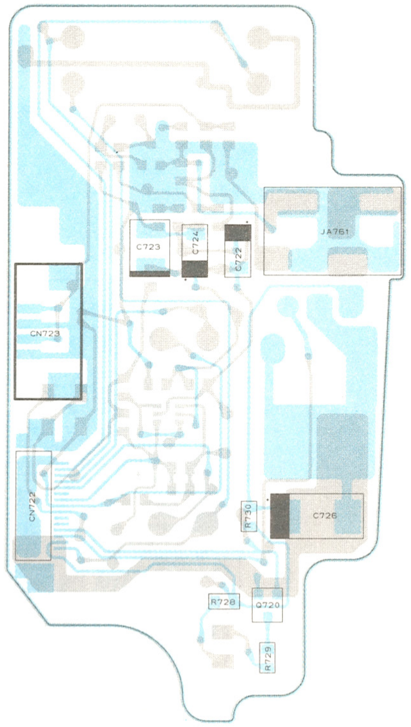

CN701
C751
C719
C705
C704
C707
C706
C708
C711
C757
C110
C759
C716
C750
R717
L101
C120
C109
R109
R108
R107
R106
C108
C107
C106
C743
C703
C141
IC102
IC101
C103
C102
C101
C105
C736
C742
C734
C104
R104
R103
R102
R101

(Component Side)

9-5 MIC (Mono)

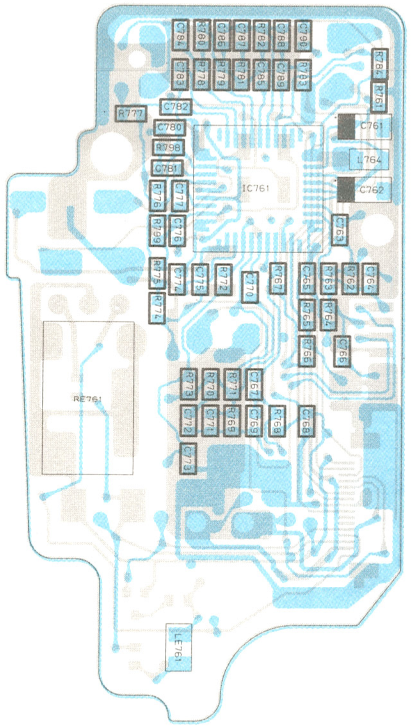

C720
R720
R737
R721
Q722
R723
R736
R722
R724
C721
R739
R725
RE761
R734
R732
R726
L702
Q721
R727
C733
R731
C725
R733
LE720

(Component Side)

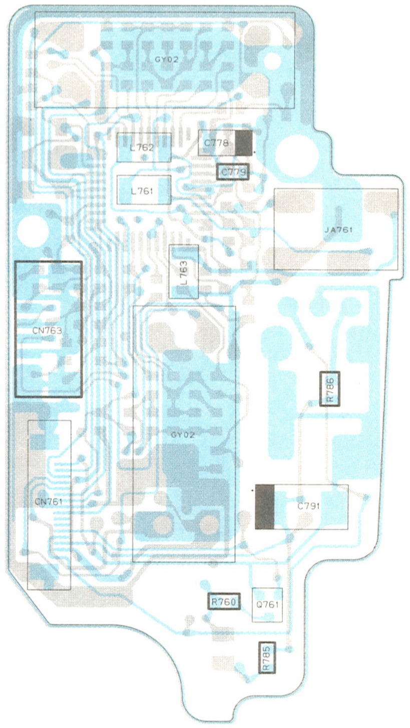

C723
C724
C722
JA761
CN723
CN722
R730
C726
R728
Q720
R729

(Conductor Side)

9-6 MIC (Stereo)


C784
R780
C786
C787
R782
C788
C790
C783
R778
R779
R781
C785
C789
R783
R784
R761
R777
C782
C780
R798
C781
C761
L764
IC761
C762
R776
C777
R799
C776
C763
R775
C774
C775
R772
C770
R767
C765
R763
R762
C764
R774
R765
R764
R766
C766
RE761
R773
R770
R771
C767
C772
C771
R769
C769
R768
C768
C773
LE761

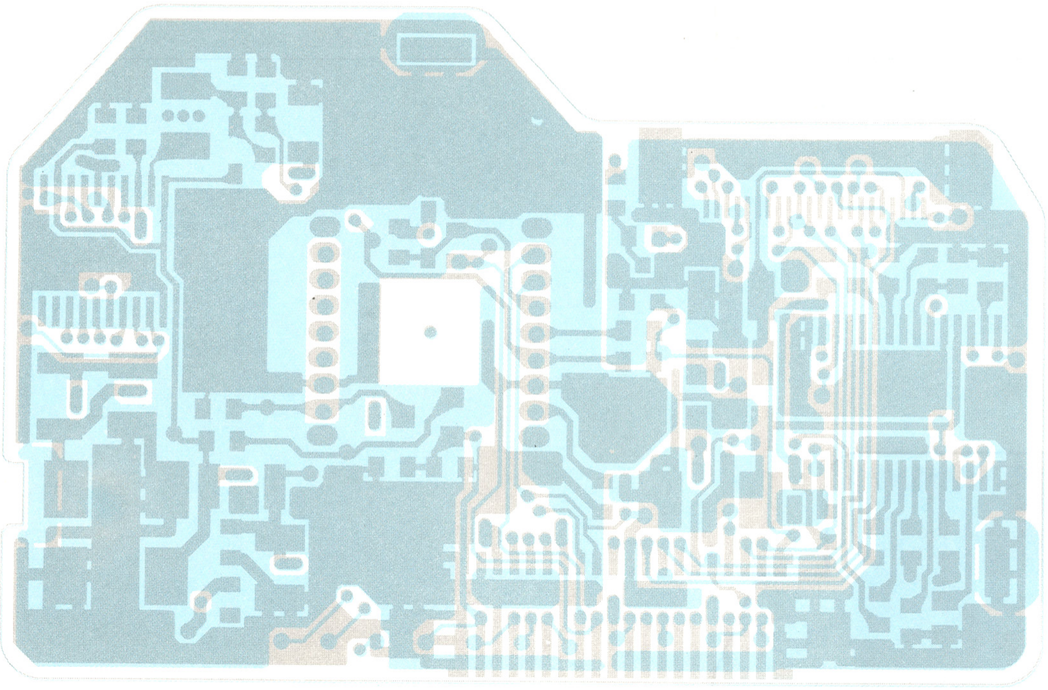
(Component Side)


GY02
L762
C778
C779
L761
JA761
L763
CN763
R786
GY02
CN761
C791
R760
Q761
R785

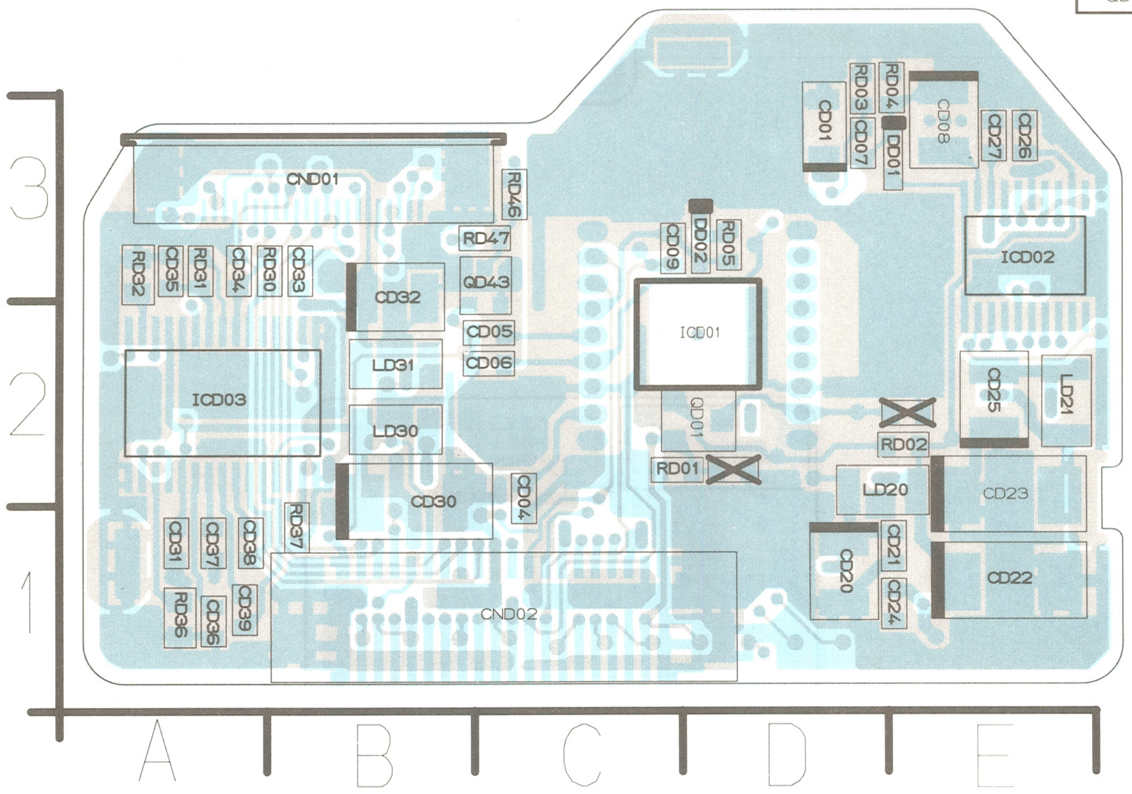
(Conductor Side)

9-7 CCD

LOCATION	COORDINATES
CND01	3-B
CND02	1-C
DD01	3-E
DD02	3-D
ICD02	3-E
ICD03	2-A
LD20	2-E
LD21	2-E
LD30	2-B
LD31	2-B
QD43	3-C

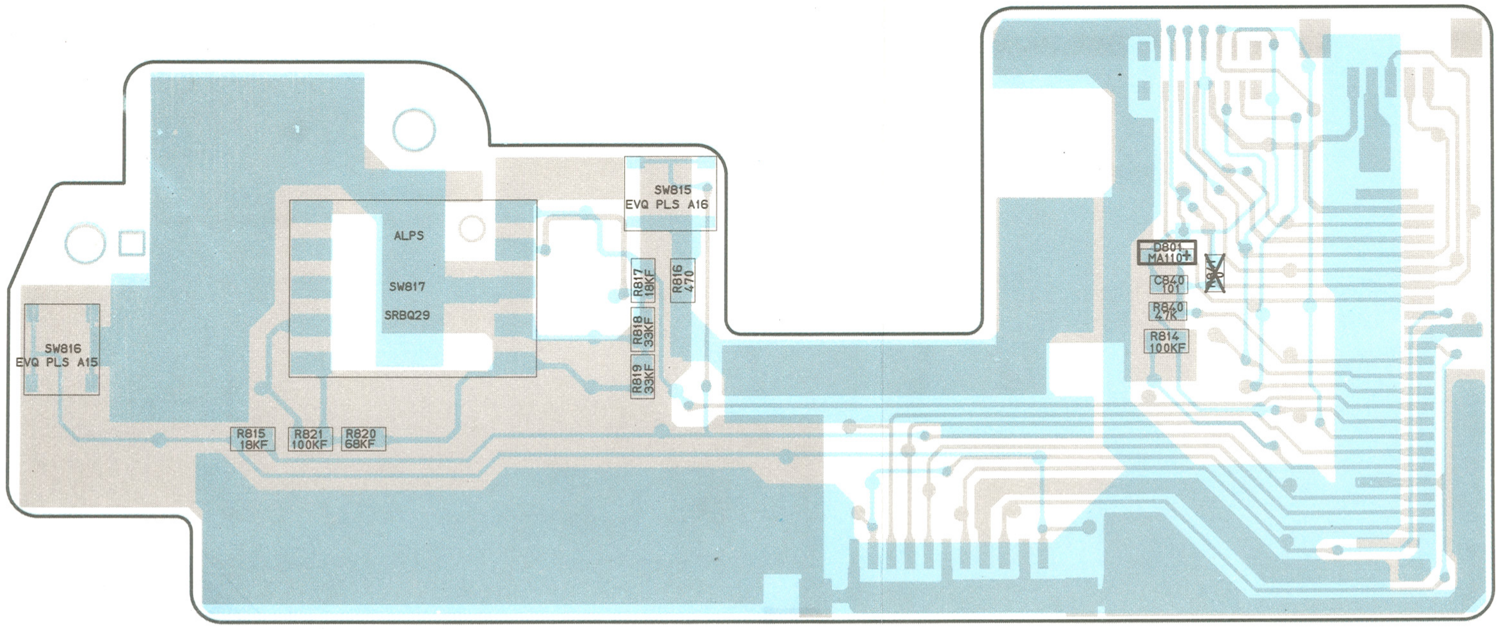


(Component Side)

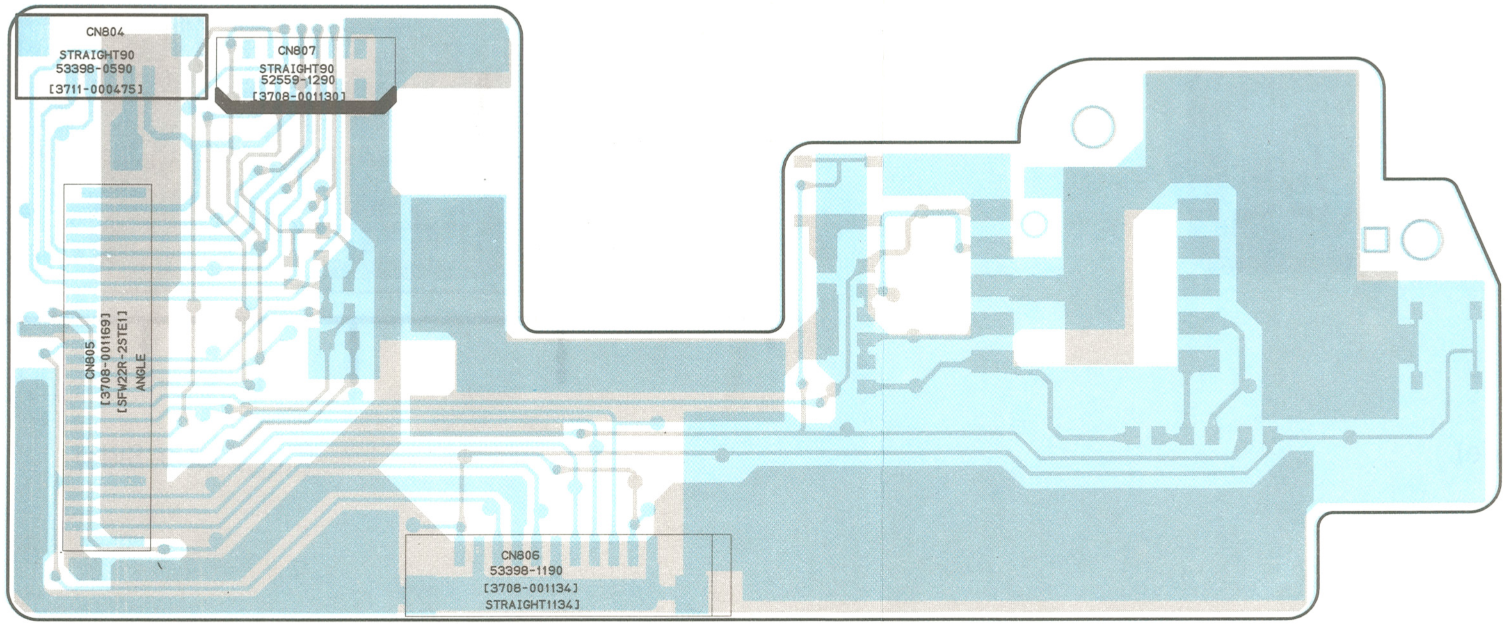

3
2
1
A
B
C
D
E
CND01
RD46
RD47
QD43
CD05
CD06
RD32
CD35
RD31
CD34
RD30
CD33
CD32
LD31
LD30
ICD03
CD30
CD04
RD37
CD31
CD37
CD38
RD36
CD36
CD39
CND02
CD09
DD02
RD05
ICD01
QD01
RD01
CD01
RD03
CD07
RD04
DD01
CD08
CD27
CD26
ICD02
CD25
LD21
RD02
LD20
CD23
CD20
CD21
CD24
CD22

(Conductor Side)

9-8 Function DSE

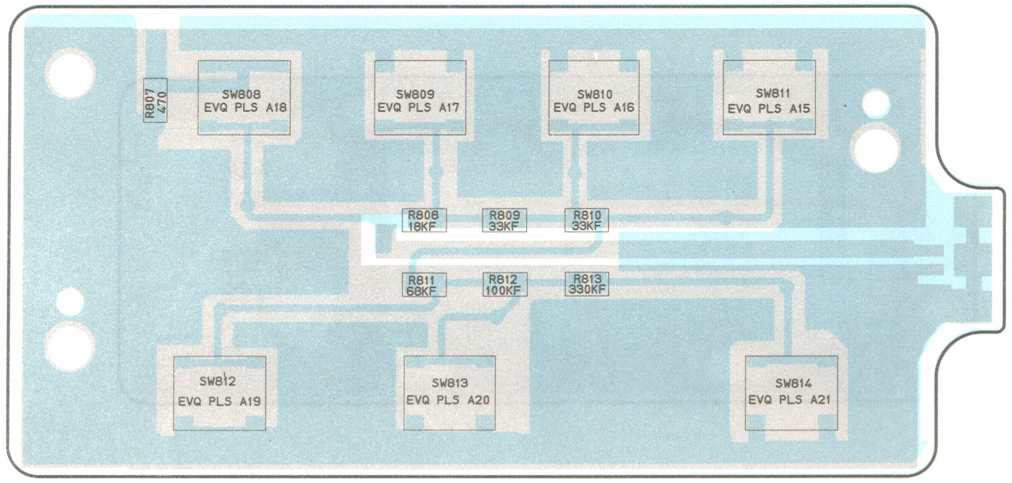

SW815
EVQ PLS A16
ALPS
SW817
SRBQ29
SW816
EVQ PLS A15
R815
18KF
R821
100KF
R820
68KF
R817
18KF
R816
470
R818
33KF
R819
33KF
D801
MA110
C840
101
R840
47K
R814
100KF

(Component Side)

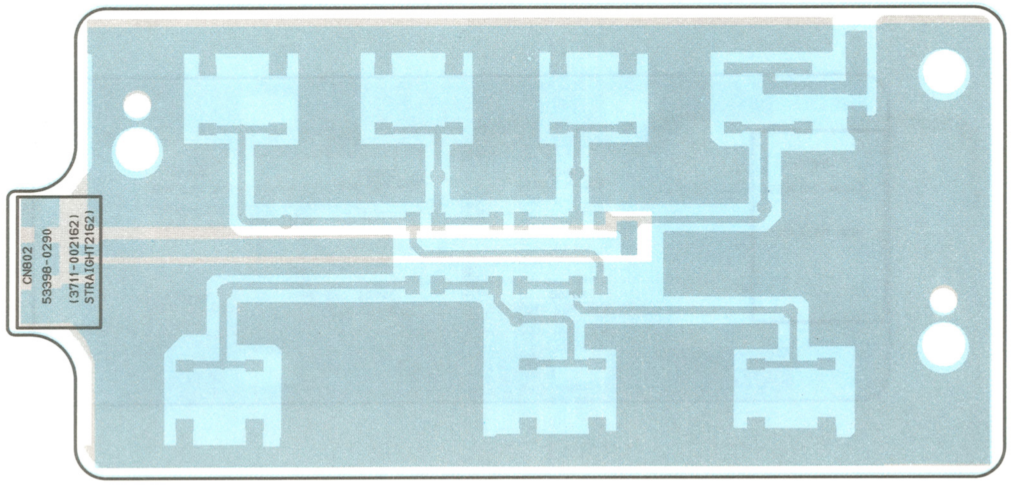

CN804
STRAIGHT90
53398-0590
[3711-000475]
CN807
STRAIGHT90
52559-1290
[3708-001130]
CN805
[3708-001169]
[SFW22R-2STE1]
ANGLE
CN806
53398-1190
[3708-001134]
STRAIGHT1134]

(Component Side)

9-9 Function BLC

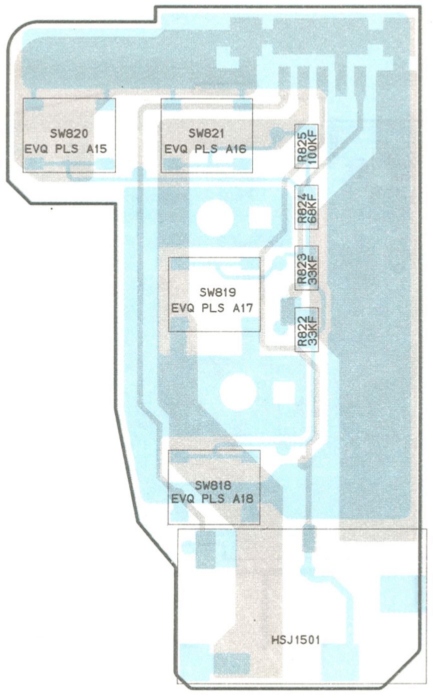

R807
470
SW808
EVQ PLS A18
SW809
EVQ PLS A17
SW810
EVQ PLS A16
SW811
EVQ PLS A15
R808
18KF
R809
33KF
R810
33KF
R811
68KF
R812
100KF
R813
330KF
SW812
EVQ PLS A19
SW813
EVQ PLS A20
SW814
EVQ PLS A21

(Component Side)

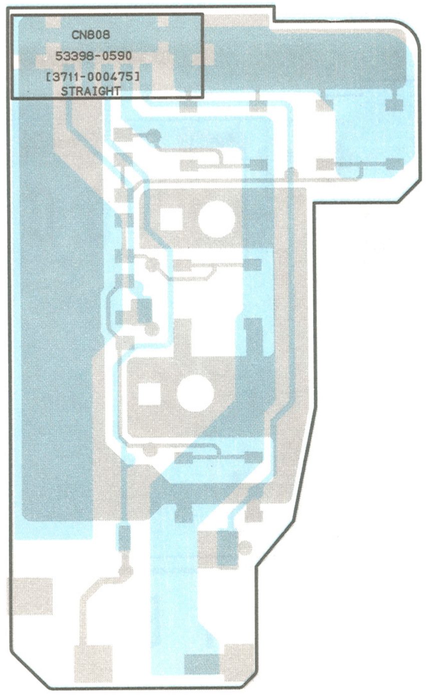

CN802
53398-0290
(3711-002162)
STRAIGHT2162)

(Conductor Side)

9-10 Function EAR

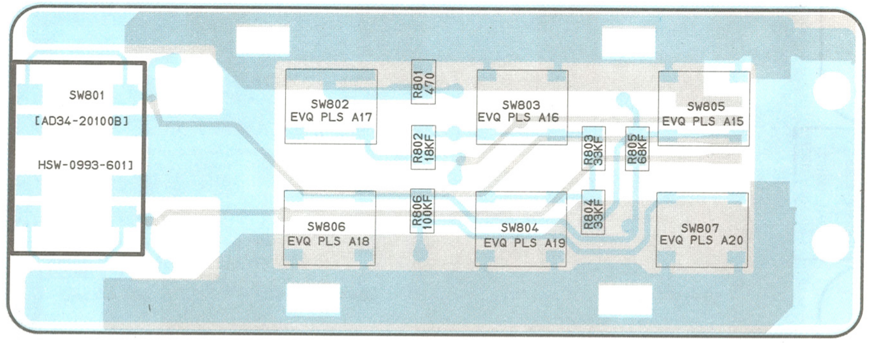

SW820
EVQ PLS A15
SW821
EVQ PLS A16
R825
100KF
R824
68KF
R823
33KF
SW819
EVQ PLS A17
R822
33KF
SW818
EVQ PLS A18
HSJ1501

(Component Side)

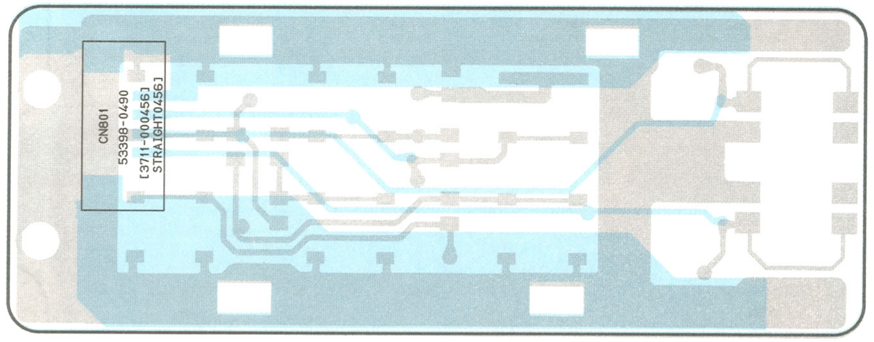

CN808
53398-0590
[3711-000475]
STRAIGHT

(Conductor Side)

9-11 Function VCR


SW801
[AD34-20100B]
HSW-0993-601]
SW802
EVQ PLS A17
R801
470
R802
18KF
R806
100KF
SW806
EVQ PLS A18
SW803
EVQ PLS A16
SW804
EVQ PLS A19
R803
33KF
R804
33KF
R805
68KF
SW805
EVQ PLS A15
SW807
EVQ PLS A20

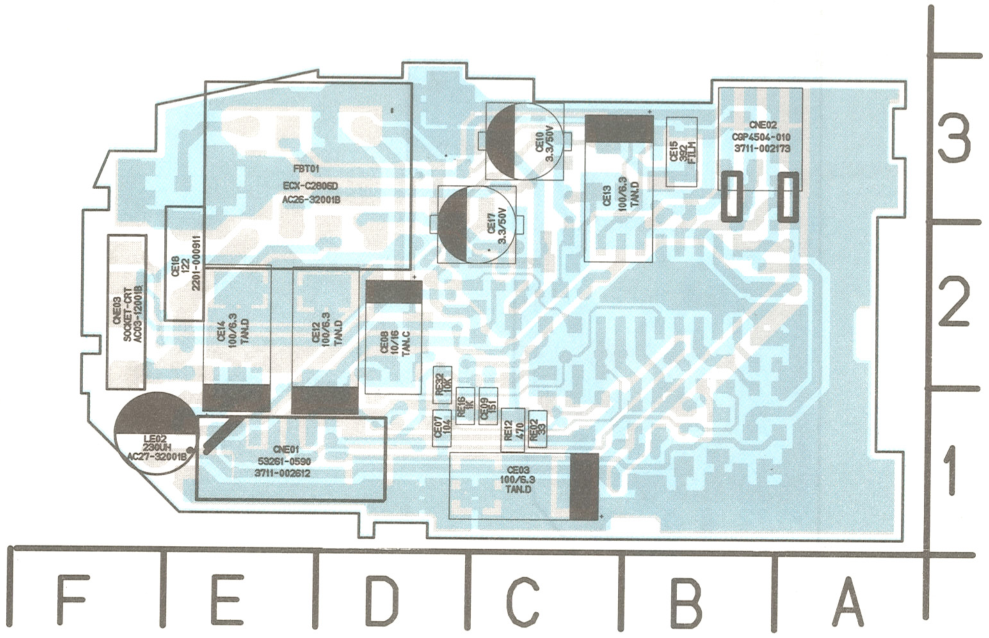
(Component Side)


CN801
53398-0490
[3711-000456]
STRAIGHT0456]

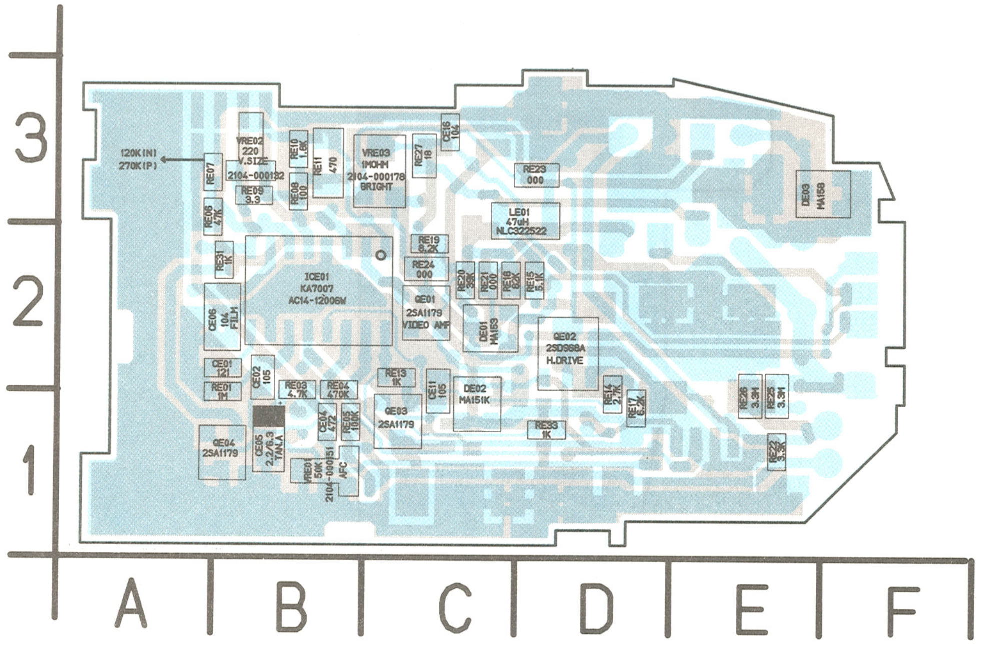
(Conductor Side)

9-12 EVF (VP-A12/VP-A17)

LOCATION	COORDINATES
CNE01	1-E
CNE02	3-B
CNE03	2-F
FBT01	3-E
LE02	1-F


FBT01
ECX-C2806D
AC26-32001B
CE18
122
2201-000911
CNE03
SOCKET-CRT
AC03-12001B
CE14
100/6.3
TAN.D
CE12
100/6.3
TAN.D
CE08
10/16
TAN.C
CE10
3.3/50V
CE17
3.3/50V
CE13
100/6.3
TAN.D
CE15
392
FILM
CNE02
CGP4504-010
3711-002173
RE32
10K
RE16
1K
CE09
151
CE07
104
RE12
470
RE02
33
LE02
230UH
AC27-32001B
CNE01
53261-0590
3711-002612
CE03
100/6.3
TAN.D
3
2
1
F
E
D
C
B
A

(Component Side)

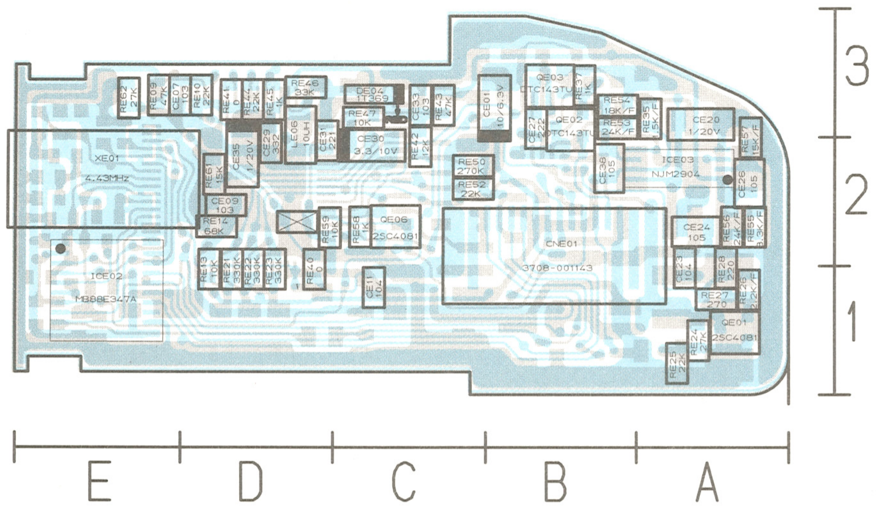

120K(N)
270K(P)
RE07
VRE02
220
V.SIZE
2104-000132
RE09
3.3
RE10
1.8K
RE08
100
RE11
470
VRE03
1MOHM
2104-000178
BRIGHT
RE27
18
CE16
104
RE23
000
LE01
47uH
NLC322522
DE03
MA158
RE06
47K
RE31
1K
ICE01
KA7007
AC14-12006W
RE19
8.2K
RE24
000
RE20
39K
RE21
000
RE18
82K
RE15
5.1K
CE06
104
FILM
QE01
2SA1179
VIDEO AMP
DE01
MA153
QE02
2SD968A
H.DRIVE
CE01
121
RE01
1M
CE02
105
RE03
4.7K
RE04
470K
RE13
1K
CE11
105
DE02
MA151K
RE14
2.7K
RE17
6.2K
RE26
3.3M
RE25
3.3M
QE04
2SA1179
CE05
2.2/6.3
TAN.A
CE04
472
RE05
100K
VRE01
50K
2104-000151
AFC
QE03
2SA1179
RE33
1K
RE22
3.3K
3
2
1
A
B
C
D
E
F

LOCATION	COORDINATES
DE01	2-C
DE02	1-C
DE03	3-E
ICE01	2-B
LE01	2-D
QE01	2-C
QE02	2-D
QE03	1-C
QE04	1-B
VRE01	1-B
VRE02	3-B
VRE03	3-C

(Conductor Side)

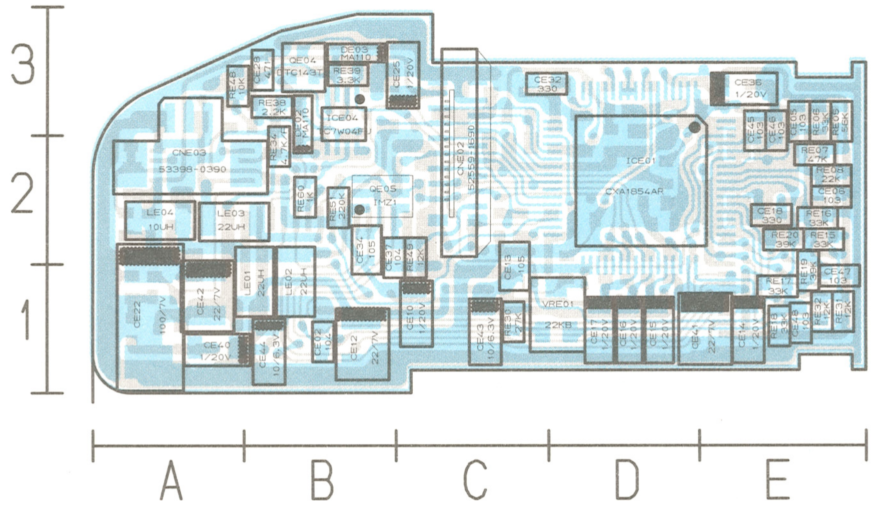
9-13 CVF (VP-A15/VP-A18)

LOCATION	COORDINATES
CNE01	2-B
DE04	3-C
ICE02	1-E
ICE03	2-A
LE06	3-D
QE01	1-A
QE02	3-B
QE03	3-B
QE06	2-C
XE01	2-E


3
2
1
E
D
C
B
A
XE01
ICE02
CNE01
ICE03
NJM2904
QE06
2SC4081
QE01

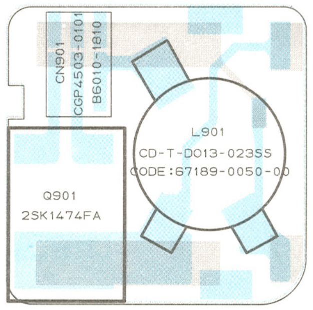
(Component Side)

LOCATION	COORDINATES
CN702	3-L
IC701	2-K
ICE03	2-G
ICE04	3-G
ICE05	2-G
Q707	3-K
Q708	2-K
Q709	3-K
Q710	2-K
Q712	3-L
Q719	4-K

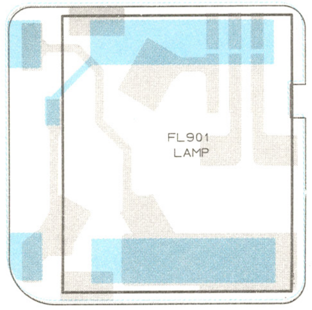

3
2
1
A
B
C
D
E
CNE03
ICE01
CXA1854AR
LE04
10UH
LE03
22UH
ICE04
VRE01

(Conductor Side)

9-14 Back Light (VP-A15/VP-A18)

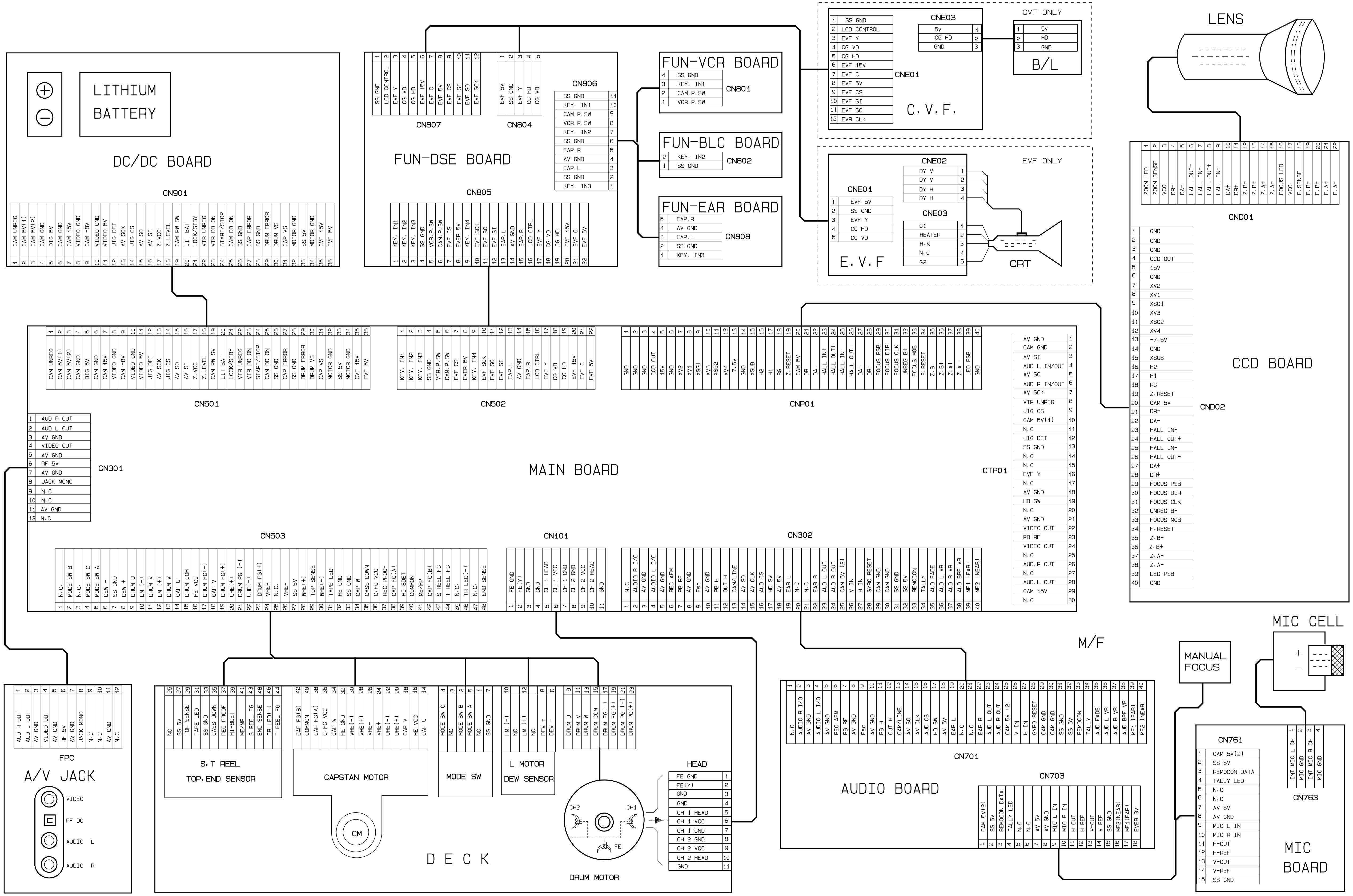

CN901
CGP4503-0101
B6010-1810
L901
CD-T-D013-0235S
CODE:67189-0050-00
Q901
2SK1474FA

(Component Side)



(Conductor Side)

10. Wiring Diagram


LITHIUM BATTERY
DC/DC BOARD
CN901
FUN-DSE BOARD
CN807
CN804
CN806
CN805
FUN-VCR BOARD
CN801
FUN-BLC BOARD
CN802
FUN-EAR BOARD
CN808
CNE03
CNE01
C.V.F.
CVF ONLY
B/L
CNE02
CNE01
CNE03
E.V.F
EVF ONLY
CRT
LENS
CND01
CCD BOARD
CND02
MAIN BOARD
CN501
CN502
CNP01
CN301
CTP01
CN503
CN101
CN302
FPC
A/V JACK
VIDEO
RF DC
AUDIO L
AUDIO R
S.T REEL
TOP.END SENSOR
CAPSTAN MOTOR
CM
MODE SW
L MOTOR
DEW SENSOR
HEAD
CH2
CH1
FE
DRUM MOTOR
D E C K
M/F
MANUAL FOCUS
MIC CELL
AUDIO BOARD
CN701
CN703
CN761
CN763
MIC BOARD

11. Schematic Diagrams

Page

◆ Block Identification of Main PCB - - - - - - - - - - - - - - - 11-2

11-1 DC/DC Converter - 11-3

11-2 System Control/Servo - - - - - - - - - - - - - - - - - - - 11-4

11-3 Video - 11-5

11-4 Audio (Mono) - 11-6

11-5 Audio (Stereo) - 11-7

11-6 MIC (Mono) - 11-8

11-7 MIC (Stereo) - 11-9

11-8 Camera Main - 11-10

11-9 CCD - 11-12

11-10 EIS (VP-A17/VP-A18) - - - - - - - - - - - - - - - - - - - 11-13

11-11 EVF(VP-A12/VP-A17) - - - - - - - - - - - - - - - - - - - 11-14

11-12 CVF(VP-A15/VP-A18) - - - - - - - - - - - - - - - - - - - 11-15

11-13 Function - 11-16

11-14 Adaptor - 11-17

Note

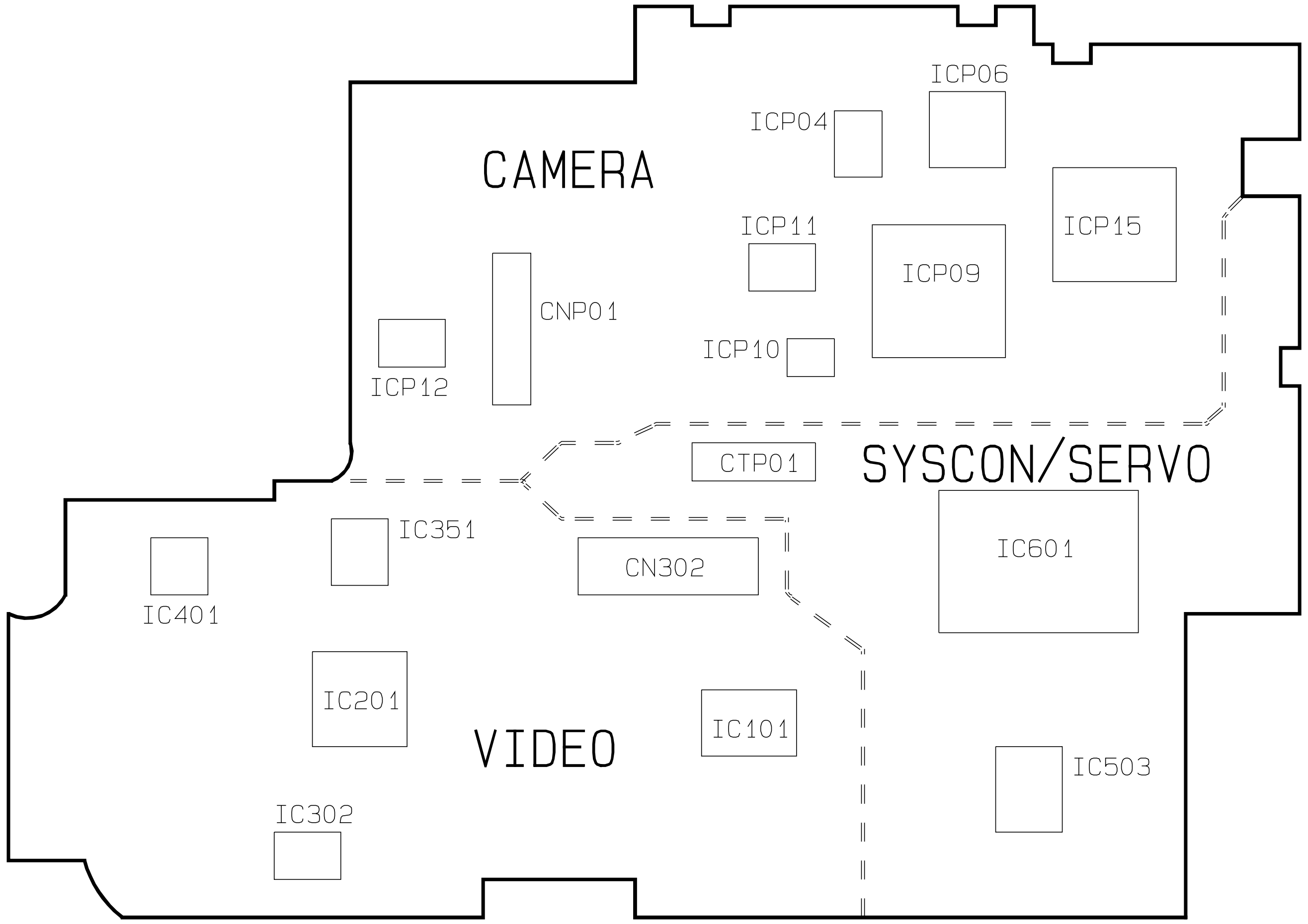
For schematic Diagram
- Resistors are in ohms, 1/8W unless otherwise noted.
- Circled numbers refer to waveforms.

Special note :
Most semiconductor devices are electrostatically sensitive and therefore require the special handling techniques described under the “electrostatically sensitive (ES) devices” section of this service manual.

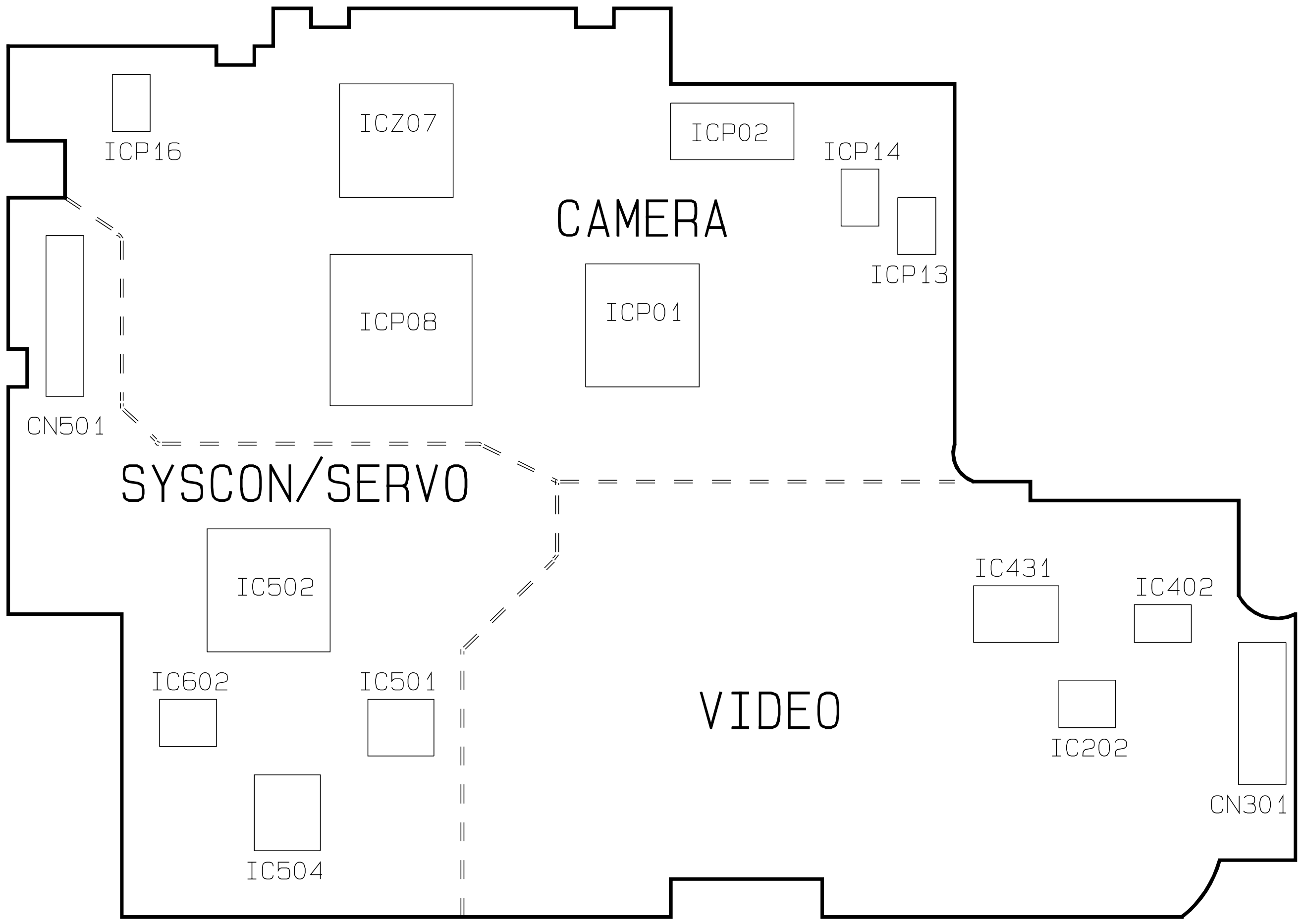
Note :
Do not use the part number shown on this drawing for ordering. The correct part number is shown in the parts list (may be slightly different or amended since this drawing was prepared).

Important safety notices :
Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components. Use only the same type.

◆ Block Identification of Main PCB

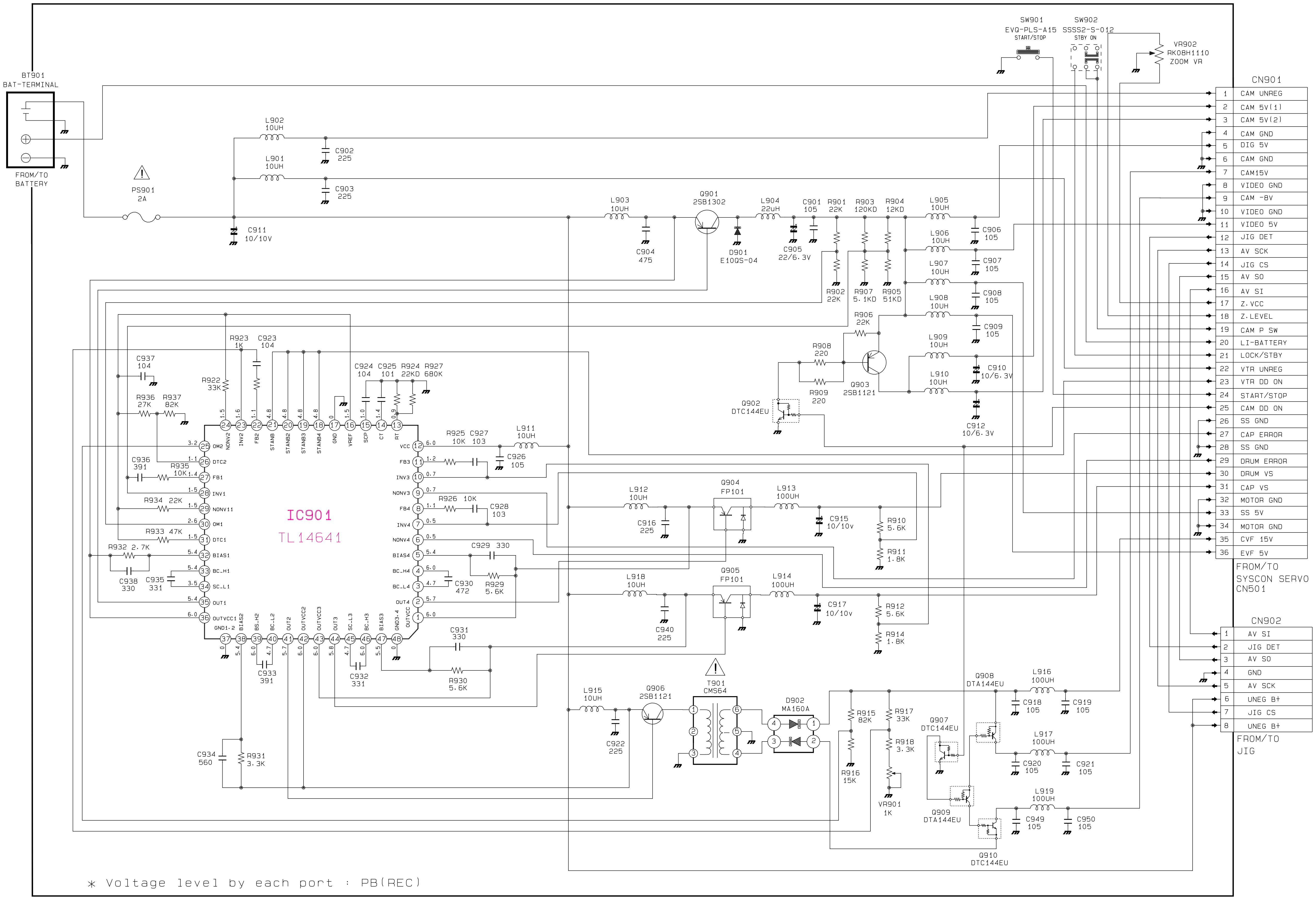

ICP06
ICP04
CAMERA
ICP11
ICP15
ICP09
CNP01
ICP10
ICP12
CTP01
SYSCON/SERVO
IC351
CN302
IC601
IC401
IC201
VIDEO
IC101
IC503
IC302

(Component Side)


ICP16
ICZ07
ICP02
ICP14
CAMERA
ICP13
ICP08
ICP01
CN501
SYSCON/SERVO
IC502
IC431
IC402
IC602
IC501
VIDEO
IC202
CN301
IC504

(Conductor Side)

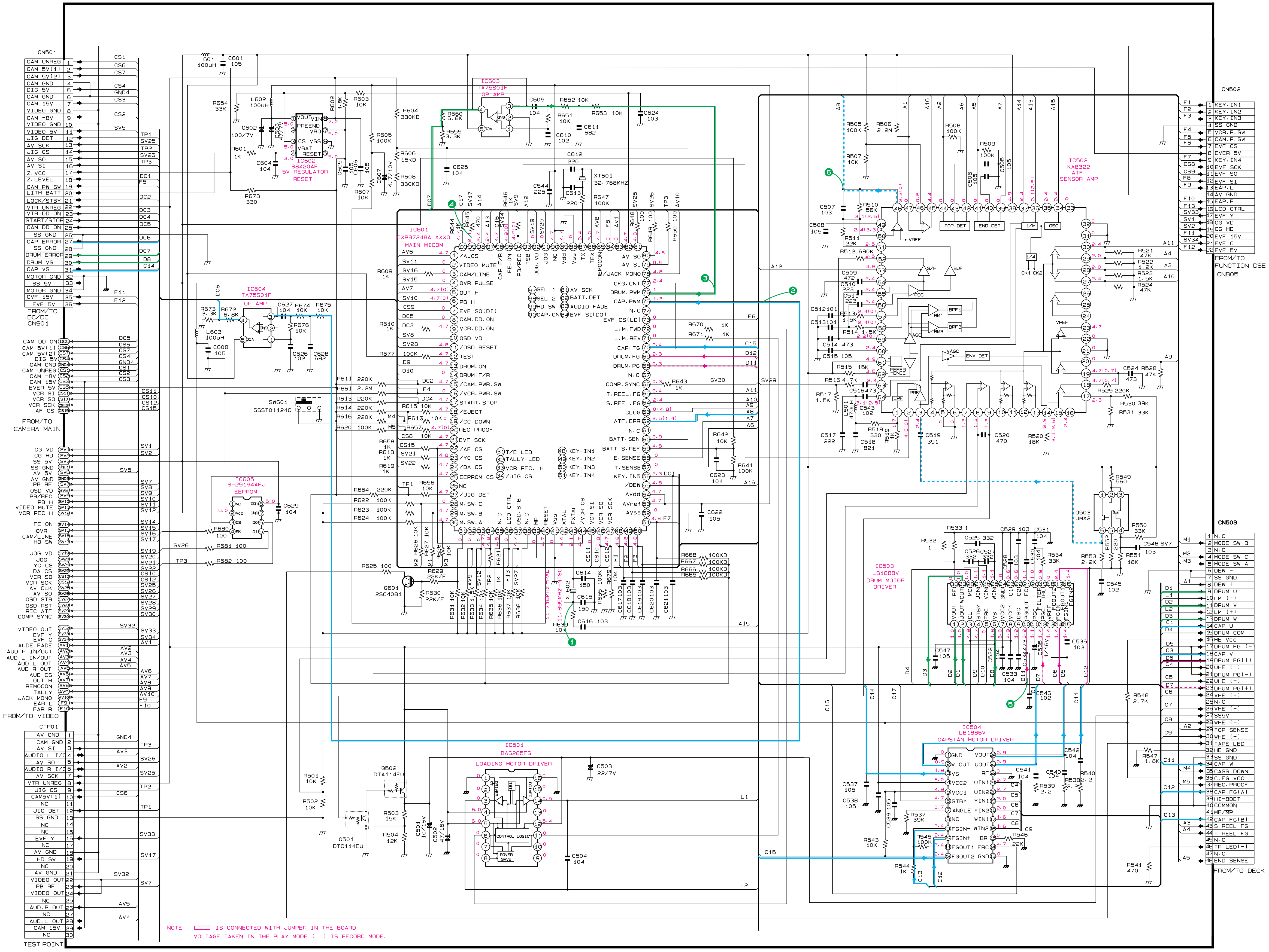
11-1 DC/DC Converter


BT901
BAT-TERMINAL
FROM/TO
BATTERY
PS901
2A
L902
10UH
L901
10UH
C902
225
C903
225
C911
10/10V
L903
10UH
C904
475
Q901
2SB1302
D901
E10QS-04
L904
22uH
C905
22/6.3V
C901
105
R901
22K
R903
120KD
R904
12KD
R902
22K
R907
5.1KD
R905
51KD
L905
10UH
L906
10UH
C906
105
L907
10UH
C907
105
L908
10UH
C908
105
C909
105
L909
10UH
L910
10UH
C910
10/6.3V
C912
10/6.3V
R906
22K
R908
220
R909
220
Q903
2SB1121
Q902
DTC144EU
SW901
EVQ-PLS-A15
START/STOP
SW902
SSSS2-S-012
STBY ON
VR902
RK08H1110
ZOOM VR
CN901
1 CAM UNREG
2 CAM 5V(1)
3 CAM 5V(2)
4 CAM GND
5 DIG 5V
6 CAM GND
7 CAM15V
8 VIDEO GND
9 CAM -8V
10 VIDEO GND
11 VIDEO 5V
12 JIG DET
13 AV SCK
14 JIG CS
15 AV SO
16 AV SI
17 Z.VCC
18 Z.LEVEL
19 CAM P SW
20 LI-BATTERY
21 LOCK/STBY
22 VTR UNREG
23 VTR DD ON
24 START/STOP
25 CAM DD ON
26 SS GND
27 CAP ERROR
28 SS GND
29 DRUM ERROR
30 DRUM VS
31 CAP VS
32 MOTOR GND
33 SS 5V
34 MOTOR GND
35 CVF 15V
36 EVF 5V
FROM/TO
SYSCON SERVO
CN501
CN902
1 AV SI
2 JIG DET
3 AV SO
4 GND
5 AV SCK
6 UNEG B+
7 JIG CS
8 UNEG B+
FROM/TO
JIG
IC901
TL14641
R923
1K
C923
104
C937
104
R922
33K
C924
104
C925
101
R924
22KD
R927
680K
R936
27K
R937
82K
C936
391
R935
10K
R934 22K
R933 47K
R932 2.7K
C938
330
C935
331
R925
10K
C927
103
L911
10UH
C926
105
R926 10K
C928
103
C929 330
C930
472
R929
5.6K
C931
330
R930
5.6K
C932
331
C933
391
C934
560
R931
3.3K
L912
10UH
C916
225
Q904
FP101
L913
100UH
C915
10/10V
R910
5.6K
R911
1.8K
L918
10UH
C940
225
Q905
FP101
L914
100UH
C917
10/10V
R912
5.6K
R914
1.8K
L915
10UH
C922
225
Q906
2SB1121
T901
CMS64
D902
MA160A
R915
82K
R916
15K
R917
33K
R918
3.3K
VR901
1K
Q907
DTC144EU
Q908
DTA144EU
Q909
DTA144EU
Q910
DTC144EU
L916
100UH
C918
105
C919
105
L917
100UH
C920
105
C921
105
L919
100UH
C949
105
C950
105
NONV2
INV2
FB2
STANB
STANB2
STANB3
STANB4
GND
VREF
SCP
CT
RT
VCC
FB3
INV3
NONV3
FB4
INV4
NONV4
BIAS4
BC.H4
BC.L4
OUT4
OUTVCC
OM2
DTC2
FB1
INV1
NONV11
OM1
DTC1
BIAS1
BC.H1
SC.L1
OUT1
OUTVCC1
GND1.2
BIAS2
BS.H2
BC.L2
OUT2
OUTVCC2
OUTVCC3
OUT3
SC.L3
BC.H3
BIAS3
GND3.4

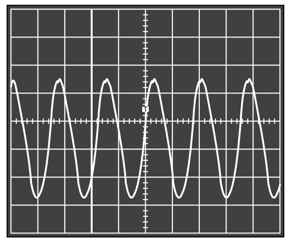
* Voltage level by each port : PB(REC)

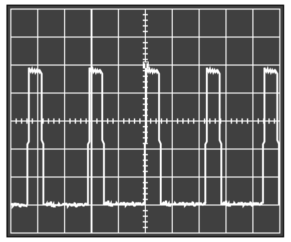
11-2 System Control/Servo

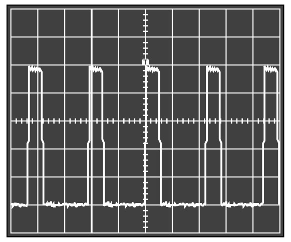
DRUM SPEED SERVO
DRUM PHASE SERVO
CAPSTAN SERVO (SPEED AND PHASE)
CAPSTAN SPEED SERVO
DRUM SERVO (SPEED AND PHASE)

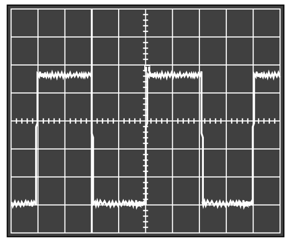

CN501
IC601
CXP87248A-XXXQ
MAIN MICOM
IC602
S8420AF
5V REGULATOR
RESET
IC603
TA75S01F
OP AMP
IC604
TA75S01F
OP AMP
IC605
S-29194AFJ
EEPROM
XT601
32.768KHZ
SW601
SSST01124C
Q601
2SC4081
IC501
BA6285FS
LOADING MOTOR DRIVER
Q501
DTC114EU
Q502
DTA114EU
IC502
KA8322
ATF
SENSOR AMP
IC503
LB1888V
DRUM MOTOR
DRIVER
Q503
UMX2
IC504
LB1686V
CAPSTAN MOTOR DRIVER
CN502
CN503
FROM/TO
DC/DC
CN901
FROM/TO
CAMERA MAIN
FROM/TO VIDEO
CTP01
TEST POINT
FROM/TO
FUNCTION DSE
CN805
FROM/TO DECK

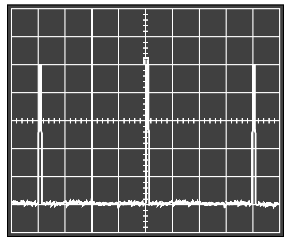
NOTE : ▭ IS CONNECTED WITH JUMPER IN THE BOARD
: VOLTAGE TAKEN IN THE PLAY MODE ( ) IS RECORD MODE.

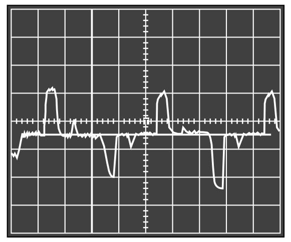
1


2


3


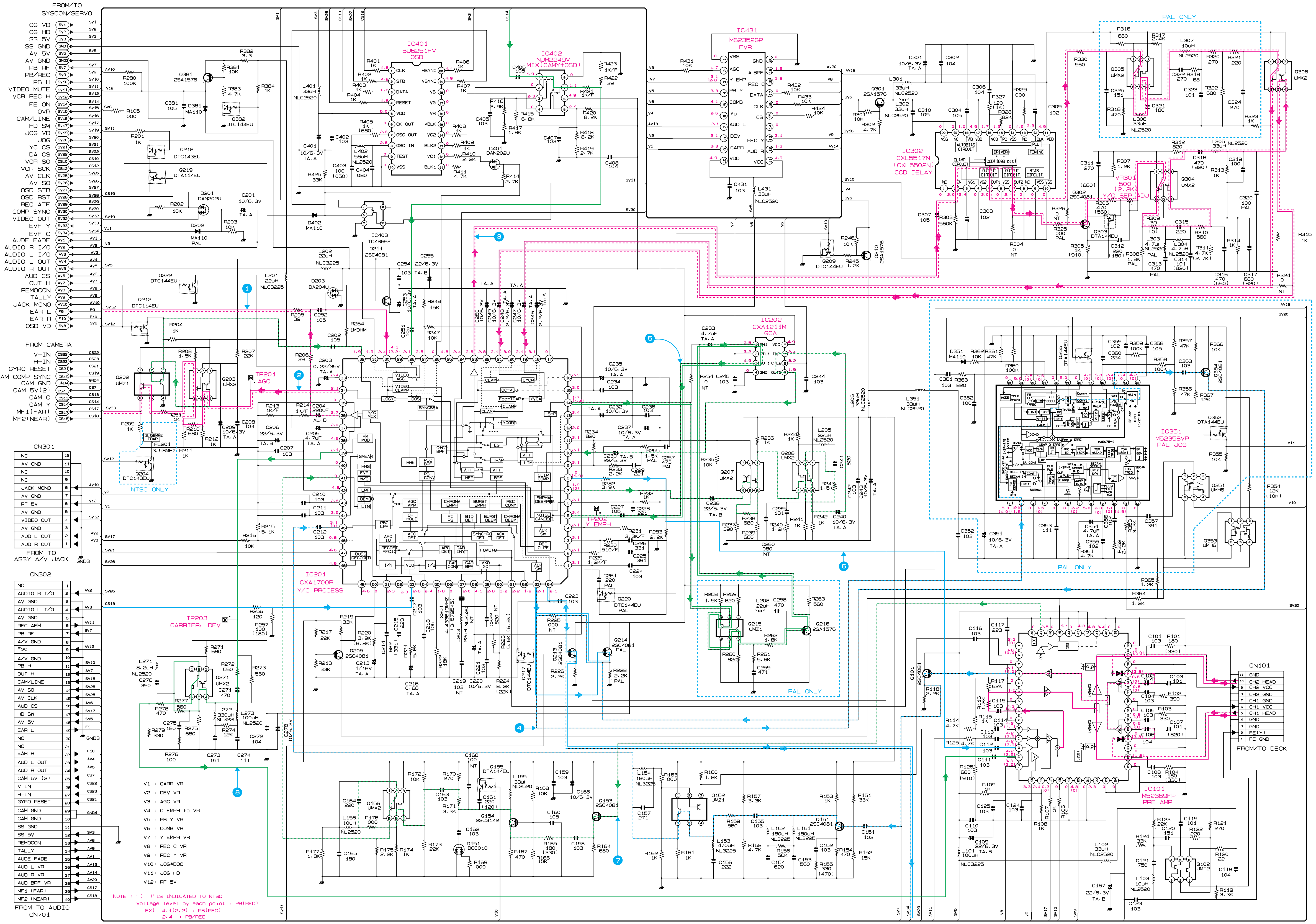
4


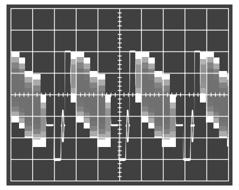
5


6


11-3 Video

VIDEO (Y+C) REC PROCESS
- - - - VIDEO (Y+C0 PB PROCESS
REC C PROCESS
- - - - PB C PROCESS
REC Y PROCESS
- - - - PB Y PROCESS


FROM/TO SYSCON/SERVO
CG VD
CG HD
SS GND
AV 5V
AV GND
PB RF
PB/REC
PB H
VIDEO MUTE
VCR REC H
FE ON
OVR
CAM/LINE
HD SW
JOG VD
JOG
YC CS
DA CS
VCR SO
VCR SCK
AV CLK
AV SO
OSD STB
OSD RST
REC ATF
COMP SYNC
VIDEO OUT
EVF Y
EVF C
AUDE FADE
AUDIO R I/O
AUDIO L I/O
AUDIO L OUT
AUDIO R OUT
AUD CS
OUT H
REMOCON
TALLY
JACK MONO
EAR L
EAR R
OSD VD
FROM CAMERA
V-IN
H-IN
GYRO RESET
CAM COMP SYNC
CAM GND
CAM 5V(2)
CAM C
CAM Y
MF1(FAR)
MF2(NEAR)
CN301
FROM TO ASSY A/V JACK
CN302
FROM TO AUDIO CN701
IC401 BU6251FV OSD
IC402 NJM2249V MIX(CAMY+OSD)
IC431 M62352GP EVR
IC302 CXL5517N (CXL5502N) CCD DELAY
PAL ONLY
NTSC ONLY
IC403 TC4S66F
IC202 CXA1211M GCA
IC201 CXA1700R Y/C PROCESS
TP201 AGC
TP202 Y EMPH
TP203 CARRIER- DEV
IC351 M52358VP PAL JOG
IC101 M52368FP PRE AMP
CN101
GND
CH2 HEAD
CH2 VCC
CH2 GND
CH1 GND
CH1 VCC
CH1 HEAD
GND
GND
FE(Y)
FE GND
FROM/TO DECK
V1 : CARR VR
V2 : DEV VR
V3 : AGC VR
V4 : C EMPH fo VR
V5 : PB Y VR
V6 : COMB VR
V7 : Y EMPH VR
V8 : REC C VR
V9 : REC Y VR
V10 : JOG-DOC
V11 : JOG HD
V12 : RF 5V
NOTE : '( )' IS INDICATED TO NTSC
Voltage level by each point : PB(REC)
EX! 4.1(2.2) : PB(REC)
2.4 : PB/REC

1


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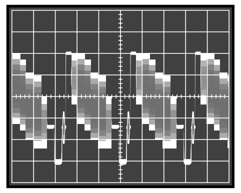
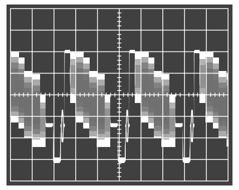
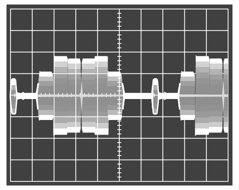


3


4


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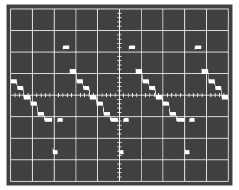

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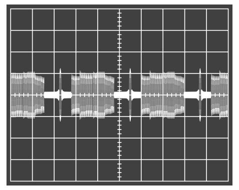

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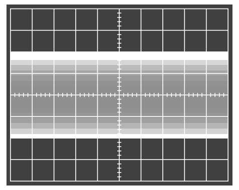
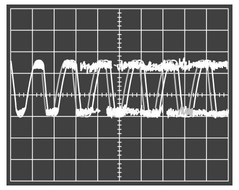
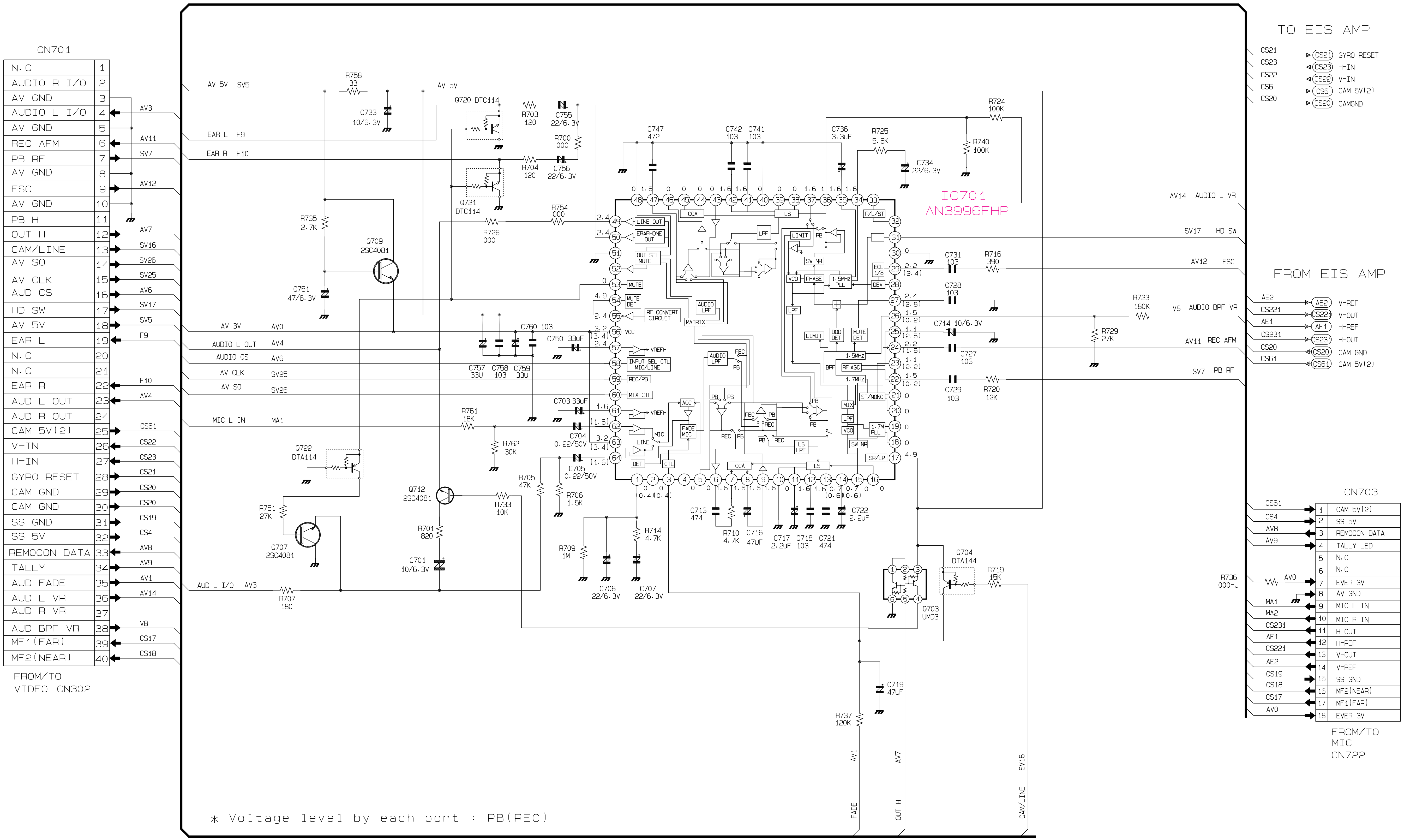


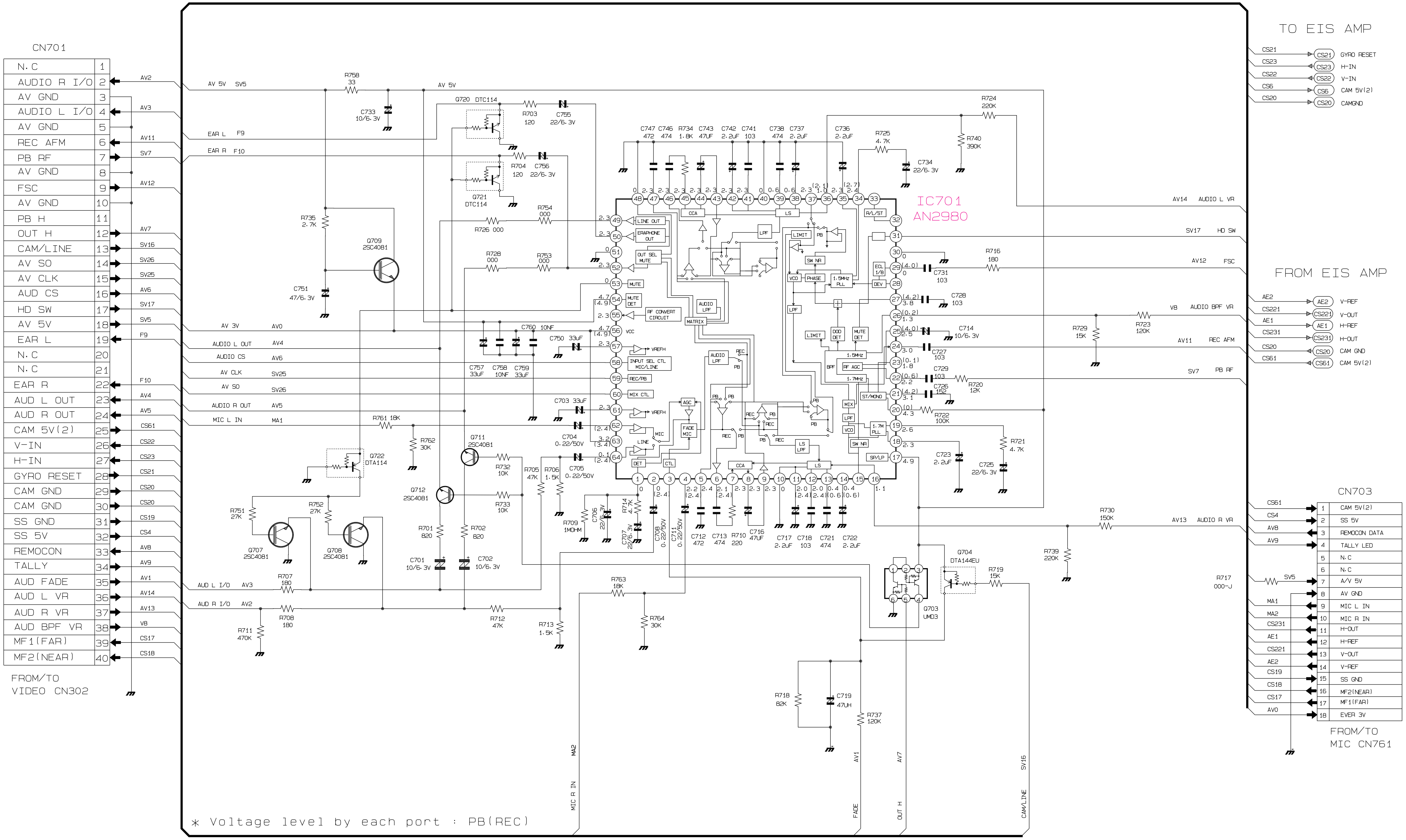
8


11-4 Audio (Mono)

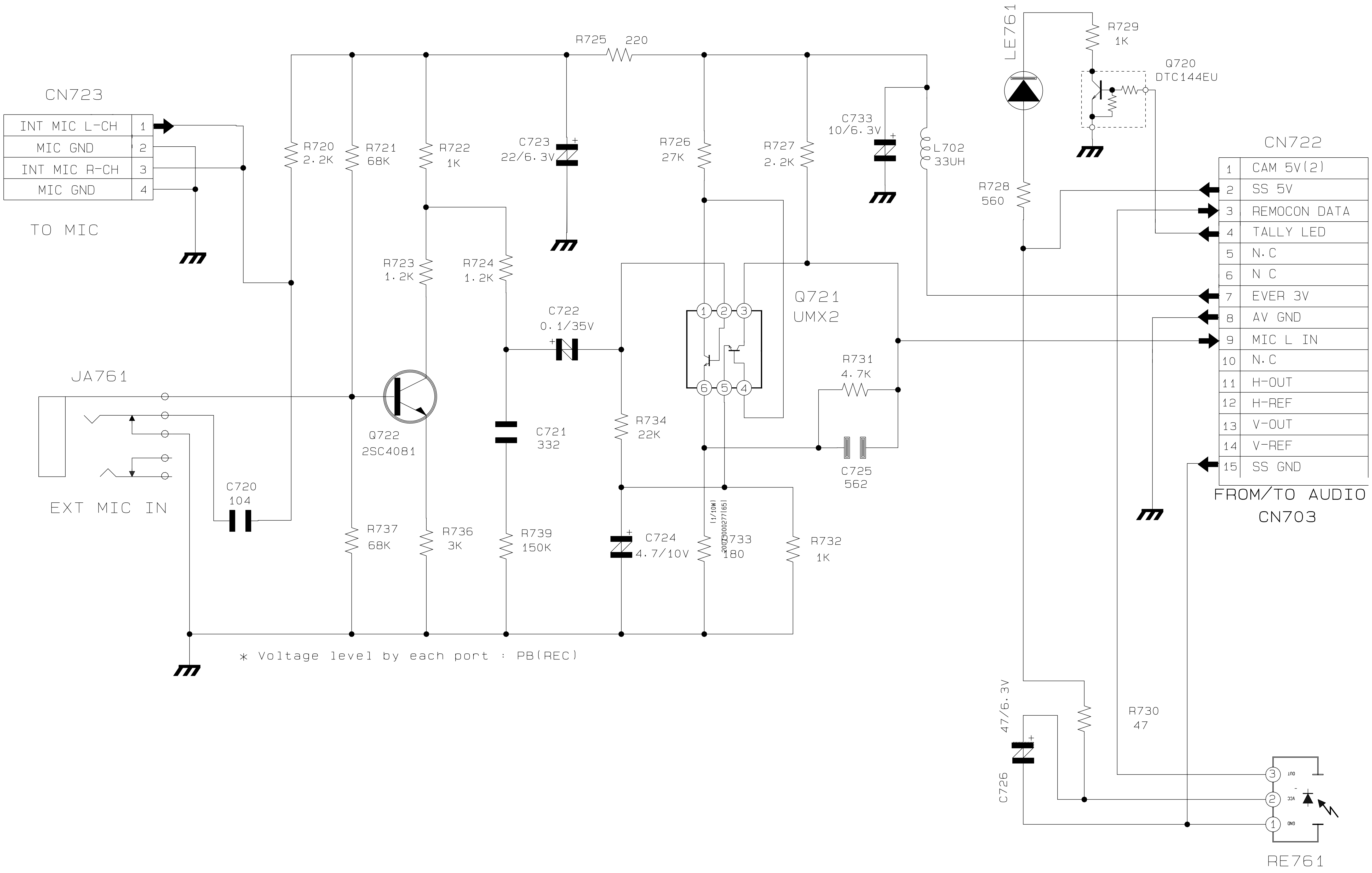

CN701
N.C 1
AUDIO R I/O 2
AV GND 3
AUDIO L I/O 4
AV GND 5
REC AFM 6
PB RF 7
AV GND 8
FSC 9
AV GND 10
PB H 11
OUT H 12
CAM/LINE 13
AV SO 14
AV CLK 15
AUD CS 16
HD SW 17
AV 5V 18
EAR L 19
N.C 20
N.C 21
EAR R 22
AUD L OUT 23
AUD R OUT 24
CAM 5V(2) 25
V-IN 26
H-IN 27
GYRO RESET 28
CAM GND 29
CAM GND 30
SS GND 31
SS 5V 32
REMOCON DATA 33
TALLY 34
AUD FADE 35
AUD L VR 36
AUD R VR 37
AUD BPF VR 38
MF1(FAR) 39
MF2(NEAR) 40
FROM/TO VIDEO CN302
IC701 AN3996FHP
Q720 DTC114
Q721 DTC114
Q709 2SC4081
Q722 DTA114
Q707 2SC4081
Q712 2SC4081
Q704 DTA144
Q703 UMD3
TO EIS AMP
CS21 GYRO RESET
CS23 H-IN
CS22 V-IN
CS6 CAM 5V(2)
CS20 CAMGND
FROM EIS AMP
AE2 V-REF
CS221 V-OUT
AE1 H-REF
CS231 H-OUT
CS20 CAM GND
CS61 CAM 5V(2)
CN703
CAM 5V(2) 1
SS 5V 2
REMOCON DATA 3
TALLY LED 4
N.C 5
N.C 6
EVER 3V 7
AV GND 8
MIC L IN 9
MIC R IN 10
H-OUT 11
H-REF 12
V-OUT 13
V-REF 14
SS GND 15
MF2(NEAR) 16
MF1(FAR) 17
EVER 3V 18
FROM/TO MIC CN722
AV 5V SV5
EAR L F9
EAR R F10
AV 3V AV0
AUDIO L OUT AV4
AUDIO CS AV6
AV CLK SV25
AV SO SV26
MIC L IN MA1
AUD L I/O AV3
AV14 AUDIO L VR
SV17 HD SW
AV12 FSC
V8 AUDIO BPF VR
AV11 REC AFM
SV7 PB RF
AV1 FADE
AV7 OUT H
SV16 CAM/LINE
R758 33
C733 10/6.3V
R703 120
C755 22/6.3V
R700 000
R704 120
C756 22/6.3V
R754 000
R726 000
R735 2.7K
C751 47/6.3V
C760 103
C750 33uF
C757 33U
C758 103
C759 33U
C703 33uF
R761 18K
R762 30K
C704 0.22/50V
C705 0.22/50V
R705 47K
R706 1.5K
R751 27K
R733 10K
R701 820
C701 10/6.3V
R707 180
R709 1M
C706 22/6.3V
R714 4.7K
C707 22/6.3V
C713 474
R710 4.7K
C716 47UF
C717 2.2uF
C718 103
C721 474
C722 2.2uF
C747 472
C742 103
C741 103
C736 3.3uF
R725 5.6K
R724 100K
R740 100K
C734 22/6.3V
C731 103
R716 390
C728 103
C714 10/6.3V
C727 103
C729 103
R720 12K
R723 180K
R729 27K
R719 15K
C719 47UF
R737 120K
R736 000-J

* Voltage level by each port : PB(REC)

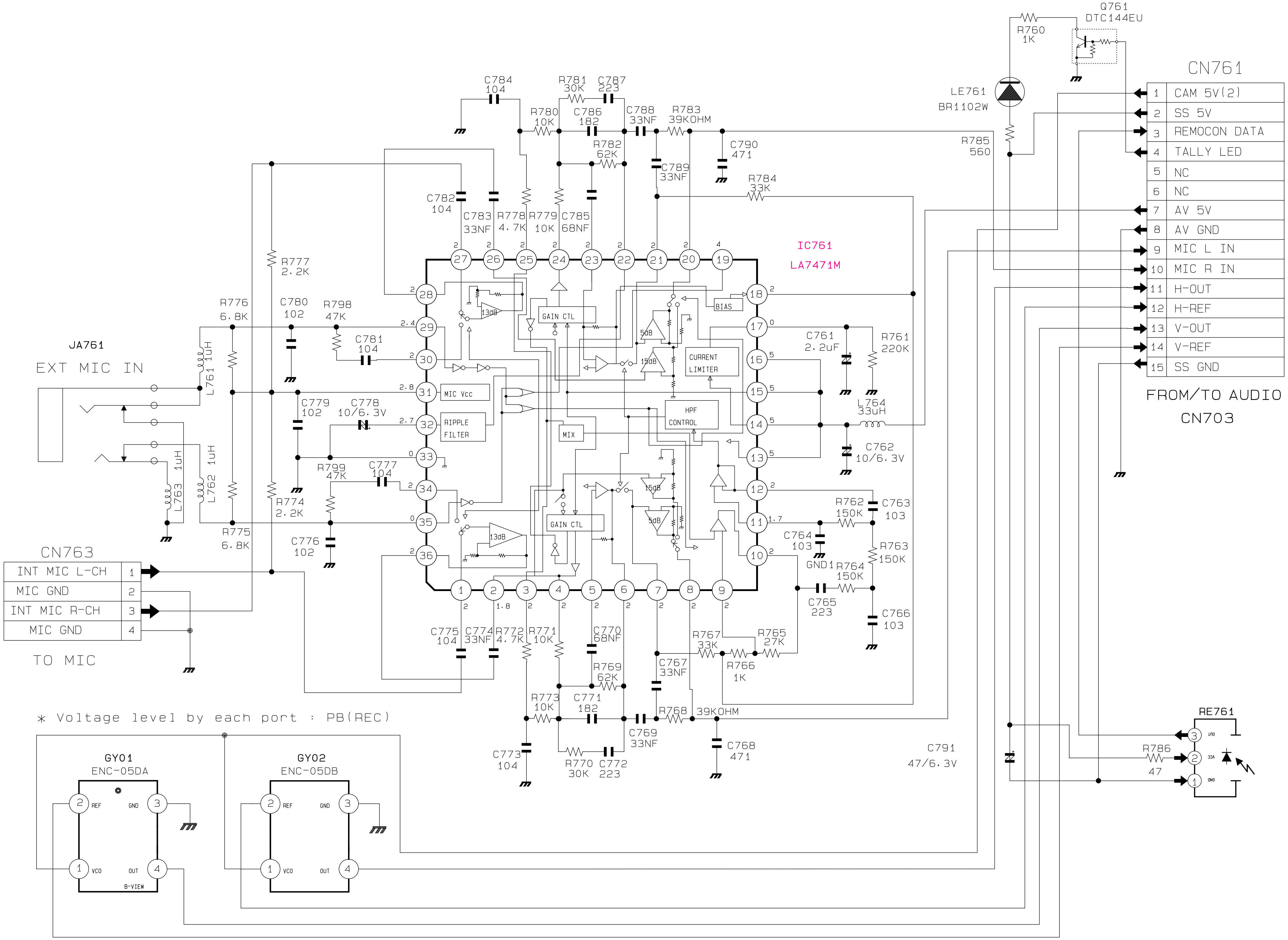
11-5 Audio (Stereo)


CN701
1 N.C
2 AUDIO R I/O
3 AV GND
4 AUDIO L I/O
5 AV GND
6 REC AFM
7 PB RF
8 AV GND
9 FSC
10 AV GND
11 PB H
12 OUT H
13 CAM/LINE
14 AV SO
15 AV CLK
16 AUD CS
17 HD SW
18 AV 5V
19 EAR L
20 N.C
21 N.C
22 EAR R
23 AUD L OUT
24 AUD R OUT
25 CAM 5V(2)
26 V-IN
27 H-IN
28 GYRO RESET
29 CAM GND
30 CAM GND
31 SS GND
32 SS 5V
33 REMOCON
34 TALLY
35 AUD FADE
36 AUD L VR
37 AUD R VR
38 AUD BPF VR
39 MF1(FAR)
40 MF2(NEAR)
FROM/TO VIDEO CN302
IC701
AN2980
TO EIS AMP
CS21 GYRO RESET
CS23 H-IN
CS22 V-IN
CS6 CAM 5V(2)
CS20 CAMGND
FROM EIS AMP
AE2 V-REF
CS221 V-OUT
AE1 H-REF
CS231 H-OUT
CS20 CAM GND
CS61 CAM 5V(2)
CN703
1 CAM 5V(2)
2 SS 5V
3 REMOCON DATA
4 TALLY LED
5 N.C
6 N.C
7 A/V 5V
8 AV GND
9 MIC L IN
10 MIC R IN
11 H-OUT
12 H-REF
13 V-OUT
14 V-REF
15 SS GND
16 MF2(NEAR)
17 MF1(FAR)
18 EVER 3V
FROM/TO MIC CN761
* Voltage level by each port : PB(REC)

11-6 MIC (Mono)

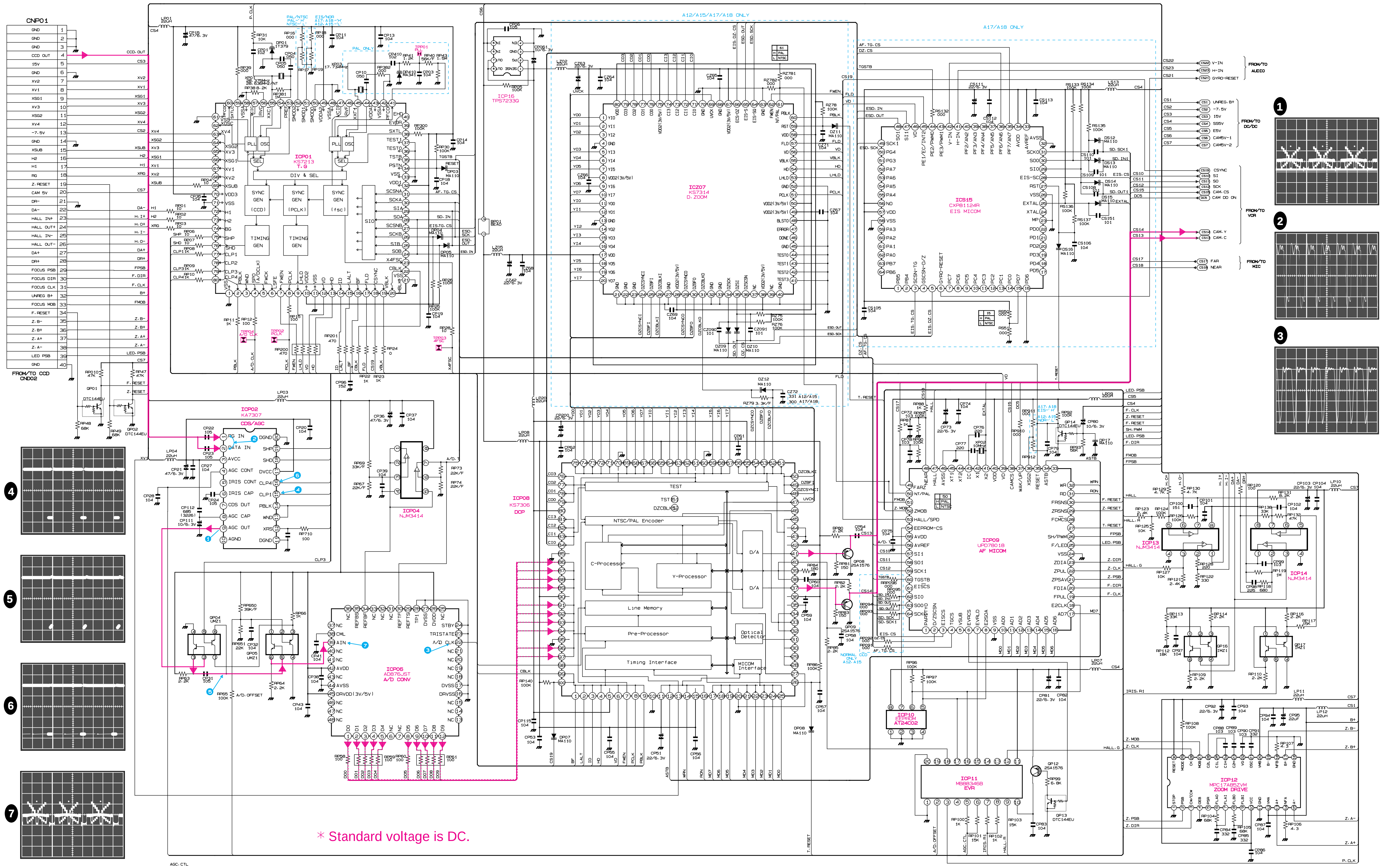

CN723
INT MIC L-CH 1
MIC GND 2
INT MIC R-CH 3
MIC GND 4
TO MIC
JA761
EXT MIC IN
C720
104
R720
2.2K
R721
68K
R722
1K
R723
1.2K
R724
1.2K
Q722
2SC4081
R737
68K
R736
3K
R739
150K
R725 220
C723
22/6.3V
C722
0.1/35V
C721
332
R726
27K
R727
2.2K
R734
22K
C724
4.7/10V
R733
180
(1/10W)
2007T000027165
Q721
UMX2
1 2 3
6 5 4
R731
4.7K
C725
562
R732
1K
C733
10/6.3V
L702
33UH
LE761
R729
1K
Q720
DTC144EU
R728
560
CN722
1 CAM 5V(2)
2 SS 5V
3 REMOCON DATA
4 TALLY LED
5 N.C
6 N C
7 EVER 3V
8 AV GND
9 MIC L IN
10 N.C
11 H-OUT
12 H-REF
13 V-OUT
14 V-REF
15 SS GND
FROM/TO AUDIO
CN703
* Voltage level by each port : PB(REC)
47/6.3V
C726
R730
47
RE761
3
2
1

11-7 MIC (Stereo)


Q761
DTC144EU
R760
1K
LE761
BR1102W
R785
560
CN761
1 CAM 5V(2)
2 SS 5V
3 REMOCON DATA
4 TALLY LED
5 NC
6 NC
7 AV 5V
8 AV GND
9 MIC L IN
10 MIC R IN
11 H-OUT
12 H-REF
13 V-OUT
14 V-REF
15 SS GND
FROM/TO AUDIO
CN703
IC761
LA7471M
C784
104
R781
30K
C787
223
R780
10K
C786
182
C788
33NF
R783
39KOHM
C790
471
R782
62K
C789
33NF
R784
33K
C782
104
C783
33NF
R778
4.7K
R779
10K
C785
68NF
R777
2.2K
R776
6.8K
C780
102
R798
47K
C781
104
JA761
EXT MIC IN
L761 1uH
L763 1uH
L762 1uH
C779
102
C778
10/6.3V
R799
47K
C777
104
R774
2.2K
R775
6.8K
C776
102
MIC Vcc
RIPPLE FILTER
MIX
GAIN CTL
BIAS
CURRENT LIMITER
HPF CONTROL
13dB
5dB
15dB
C761
2.2uF
R761
220K
L764
33uH
C762
10/6.3V
R762
150K
C763
103
C764
103
GND1
R763
150K
R764
150K
C765
223
C766
103
R767
33K
R765
27K
R766
1K
C767
33NF
R768
39KOHM
C768
471
C775
104
C774
33NF
R772
4.7K
R771
10K
C770
68NF
R769
62K
R773
10K
C771
182
C769
33NF
C773
104
R770
30K
C772
223
CN763
1 INT MIC L-CH
2 MIC GND
3 INT MIC R-CH
4 MIC GND
TO MIC
* Voltage level by each port : PB(REC)
GY01
ENC-05DA
GY02
ENC-05DB
REF
GND
VCO
OUT
B-VIEW
C791
47/6.3V
RE761
R786
47

11-8 Camera Main

ANALOG SIGNAL
- - - - DIGITAL SIGNAL


CNP01
FROM/TO CCD CND02
ICP01
KS7213
T.G
ICP02
KA7307
CDS/AGC
ICP04
NJM3414
ICP06
AD876JST
A/D CONV
ICP16
TPS7233Q
A12/A15/A17/A18 ONLY
ICZ07
KS7314
D.ZOOM
ICP08
KS7306
DCP
A17/A18 ONLY
ICS15
CXP81124R
EIS MICOM
ICP09
UPD78018
AF MICOM
ICP10
ESP4404
AT24C02
ICP11
MB88346B
EVR
ICP12
MPC17A85ZVM
ZOOM DRIVE
ICP13
NJM3414
ICP14
NJM3414
FROM/TO AUDIO
FROM/TO DC/DC
FROM/TO VCR
FROM/TO MIC
1
2
3
4
5
6
7

* Standard voltage is DC.

PIN NO	VOLTAGE(DC)
ICP01	KS7213
1	0.0
2	3.9
3	0.6
4	2.8
5	2.6
6	5.0
7	0.0
8	2.2
9	0.0
10	4.8
11	0.0
12	4.8
13	4.5
14	2.6
15	2.5
16	4.8
17	2.4
18	4.5
19	4.6
20	4.0
21	0.0
22	3.8
23	2.9
24	0.5
25	1.3
26	3.4
27	4.9
28	0.5
29	0.0
30	5.0
31	4.0
32	5.0
33	0.0
34	4.4
35	0.0
36	0.0
37	0.0
38	4.4
39	0.0
40	0.0
41	5.0
42	0.0
43	5.0
44	2.6
45	1.0
46	0.2
47	0.4
48	0.0
49	5.0
50	0.0
51	5.0
52	0.0
53	5.0
54	2.6
55	2.5
56	0.0
57	1.3
58	0.0
59	5.0
60	2.7
61	0.0
62	2.6
63	5.0
64	5.0
65	4.7
66	5.0
67	0.0
68	0.0
69	4.9
70	5.0
71	0.0
72	2.5
73	2.1
74	0.9
75	3.7
76	3.7
77	1.3

PIN NO	VOLTAGE(DC)
78	0.0
79	0.1
80	0.0
ICP02	KA7307
1	2.3
2	2.4
3	4.9
4	3.6
5	1.4
6	2.2
7	1.4
8	2.1
9	1.5
10	0.0
11	0.0
12	1.4
13	4.0
14	1.0
15	0.1
16	0.1
17	5.0
18	3.7
19	3.7
20	0.0
ICP04	NJM3414
1	2.0
2	2.0
3	2.0
4	0.0
5	2.0
6	0.0
7	4.0
8	5.0
ICP06	AD876JST
1	2.6
2	2.4
3	2.9
4	2.2
5	3.1
6	0.0
7	0.0
8	2.1
9	2.1
10	2.4
11	1.7
12	1.4
13	0.0
14	0.0
15	0.0
16	0.0
17	0.0
18	0.0
19	0.0
20	0.0
21	0.0
22	2.5
23	0.0
24	0.0
25	0.0
26	4.9
27	0.0
28	0.0
29	4.0
30	3.9
31	1.3
32	1.2
33	1.2
34	2.0
35	2.1
36	1.0
37	0.0
38	2.6
39	2.6
40	0.0
41	0.0
42	5.0
43	0.0
44	0.0

PIN NO	VOLTAGE(DC)
45	4.9
46	0.0
47	0.0
48	0.0
ICP08	KS7306
1	4.7
2	2.5
3	2.5
4	4.5
5	3.3
6	4.8
7	0.0
8	2.3
9	4.2
10	0.2
11	5.1
12	1.2
13	0.2
14	5.1
15	5.1
16	5.1
17	1.1
18	3.9
19	4.1
20	0.0
21	3.9
22	2.7
23	2.7
24	2.7
25	2.1
26	2.7
27	0.2
28	2.4
29	4.8
30	1.8
31	0.0
32	4.4
33	1.6
34	4.6
35	0.0
36	5.1
37	0.7
38	3.2
39	1.3
40	1.1
41	0.9
42	4.9
43	0.2
44	0.2
45	0.6
46	0.0
47	1.7
48	4.4
49	4.8
50	3.8
51	0.0
52	3.7
53	4.7
54	4.4
55	3.3
56	0.2
57	1.0
58	2.8
59	2.6
60	0.0
61	1.3
62	1.4
63	1.4
64	1.4
65	4.9
66	1.4
67	0.5
68	2.9
69	3.1
70	0.0
71	1.2
72	2.4
73	1.7

PIN NO	VOLTAGE(DC)
74	1.9
75	1.9
76	1.8
77	1.9
78	1.9
79	2.1
80	3.3
81	1.5
82	1.5
83	1.5
84	2.0
85	0.0
86	0.0
87	0.1
88	1.0
89	2.0
90	4.9
91	1.9
92	2.9
93	2.0
94	2.6
95	0.0
96	2.5
97	2.1
98	2.6
99	3.9
100	1.2
ICP09	UPD78018
1	0.0
2	5.0
3	4.9
4	5.0
5	0.0
6	5.1
7	0.2
8	4.9
9	0.0
10	2.2
11	2.8
12	2.7
13	3.8
14	3.9
15	4.2
16	3.9
17	1.2
18	0.0
19	0.0
20	5.0
21	0.0
22	0.0
23	5.0
24	0.0
25	0.0
26	5.0
27	4.7
28	0.3
29	4.8
30	4.8
31	5.0
32	5.0
33	5.0
34	1.2
35	4.8
36	4.9
37	4.8
38	4.5
39	4.8
40	5.0
41	2.7
42	1.6
43	0.0
44	2.7
45	0.8
46	0.0
47	0.9
48	0.0
49	0.0
50	0.0

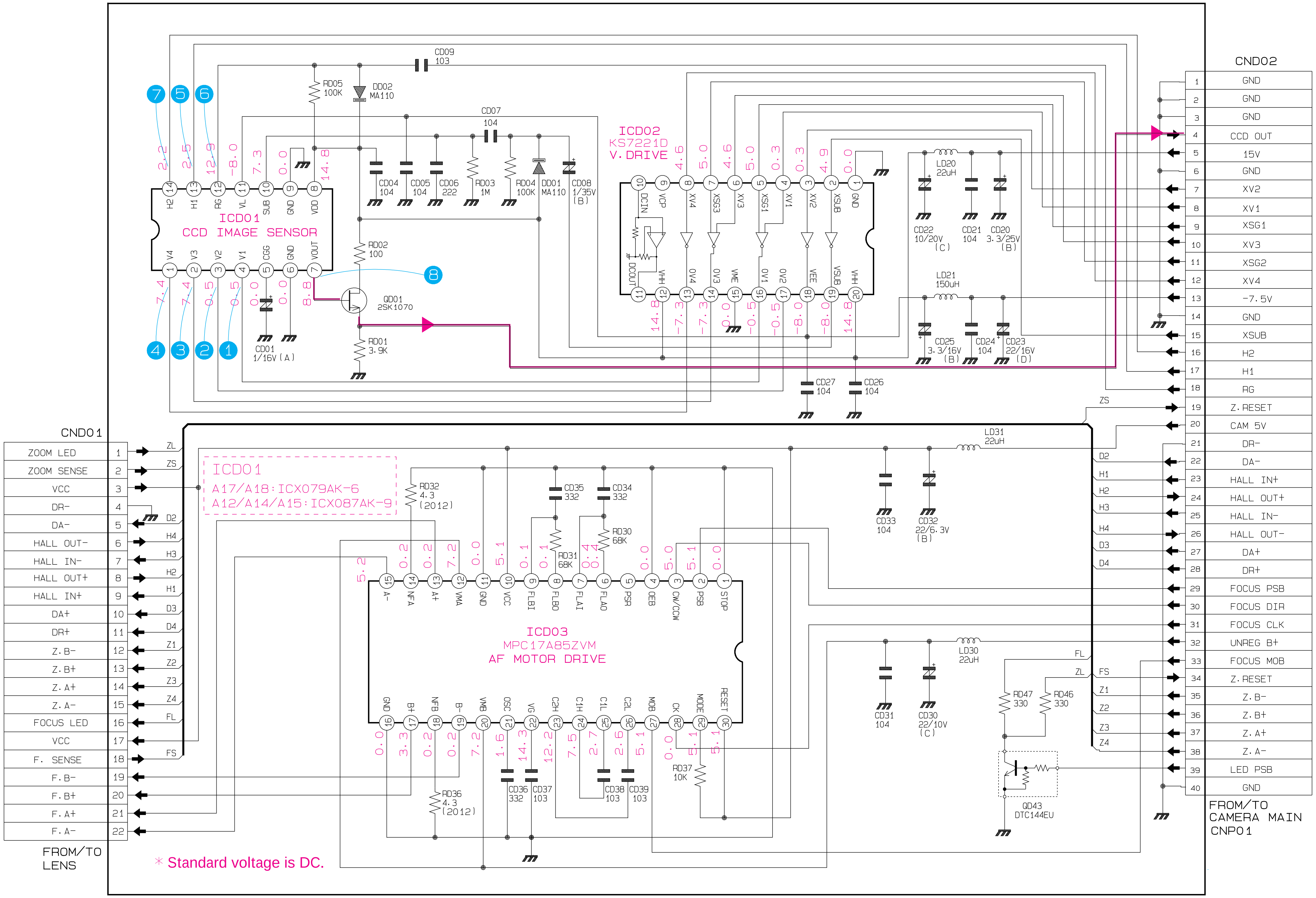
PIN NO	VOLTAGE(DC)
51	4.9
52	0.0
53	2.5
54	5.0
55	3.9
56	3.9
57	3.3
58	0.0
59	4.6
60	0.0
61	0.0
62	4.1
63	0.0
64	5.0
ICP10	AT24C02
1	0.0
2	0.0
3	0.0
4	0.0
5	5.0
6	0.0
7	5.0
8	5.0
ICP11	MB88346B
1	0.0
2	0.9
3	1.6
4	5.0
5	3.9
6	0.1
7	0.0
8	0.0
9	0.0
10	5.0
11	5.0
12	2.6
13	5.0
14	0.0
15	0.2
16	0.2
17	5.0
18	0.3
19	5.0
20	0.0
ICP12	MPC17A85ZVM
1	0.2
2	5.1
3	5.1
4	0.0
5	3.0
6	0.0
7	0.0
8	0.5
9	0.5
10	5.0
11	0.0
12	8.4
13	0.0
14	0.0
15	3.0
16	0.0
17	8.4
18	0.0
19	4.4
20	8.4
21	1.5
22	14.3
23	11.7
24	7.1
25	2.5
26	2.5
27	0.0
28	0.0
29	5.0
30	5.0
ICP13	NJM3414
1	2.3
2	0.5

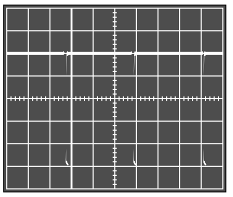
PIN NO	VOLTAGE(DC)
3	0.5
4	0.0
5	1.4
6	1.4
7	0.9
8	4.9
ICP14	NJM3414
1	4.2
2	1.8
3	1.8
4	0.0
5	0.7
6	0.9
7	0.5
8	4.9
ICP16	TP7233Q
1	3.4
2	4.4
3	0.0
4	0.0
5	4.9
6	4.9
7	3.3
8	3.3
ICZ07	KS7314
1	1.7
2	1.7
3	2.0
4	2.0
5	2.4
6	1.3
7	1.6
8	0.0
9	1.7
10	0.7
11	1.4
12	1.4
13	0.0
14	1.4
15	1.5
16	1.6
17	4.9
18	2.0
19	0.0
20	0.3
21	0.0
22	0.0
23	0.0
24	4.4
25	4.7
26	3.7
27	0.0
28	0.0
29	4.9
30	4.7
31	3.7
32	0.0
33	0.0
34	3.7
35	1.4
36	4.8
37	0.0
38	3.3
39	1.1
40	0.0
41	0.0
42	0.0
43	0.0
44	0.0
45	0.0
46	0.0
47	0.0
48	0.0
49	3.3
50	3.3
51	3.3
52	0.0
53	0.0

PIN NO	VOLTAGE(DC)
54	4.5
55	4.6
56	4.8
57	0.0
58	4.9
59	3.1
60	4.0
61	0.0
62	0.0
63	0.0
64	3.1
65	1.2
66	4.9
67	3.3
68	0.0
69	1.7
70	0.0
71	1.6
72	1.6
73	1.7
74	1.8
75	3.3
76	1.7
77	1.9
78	1.8
79	2.3
80	4.9
ICS15	CXP811P24R
1	3.3
2	1.7
3	1.7
4	3.3
5	1.6
6	0.0
7	0.0
8	0.0
9	0.0
10	0.0
11	0.0
12	0.0
13	0.0
14	0.0
15	0.0
16	0.0
17	5.0
18	5.0
19	5.0
20	5.0
21	5.0
22	5.0
23	0.0
24	2.8
25	5.0
26	5.0
27	5.0
28	0.4
29	5.0
30	5.0
31	5.0
32	0.0
33	0.0
34	0.0
35	5.0
36	5.0
37	0.0
38	0.0
39	0.3
40	0.3
41	3.9
42	2.6
43	5.0
44	5.0
45	2.5
46	4.8
47	5.0
48	5.0
49	5.0
50	0.0

PIN	VOLTAGE(DC)
51	5.0
52	2.5
53	2.0
54	1.9
55	1.7
56	5.0
57	5.0
58	0.0
59	1.7
60	1.7
61	1.7
62	1.7
63	1.7
64	1.7

11-9 CCD


CCD OUT
ICD01
CCD IMAGE SENSOR
A17/A18:ICX079AK-6
A12/A14/A15:ICX087AK-9
ICD02
KS7221D
V. DRIVE
ICD03
MPC17A85ZVM
AF MOTOR DRIVE
QD01
2SK1070
QD43
DTC144EU
RD05 100K
DD02 MA110
CD09 103
CD07 104
CD04 104
CD05 104
CD06 222
RD03 1M
RD04 100K
DD01 MA110
CD08 1/35V (B)
RD02 100
RD01 3.9K
CD01 1/16V (A)
LD20 22uH
CD22 10/20V (C)
CD21 104
CD20 3.3/25V (B)
LD21 150uH
CD25 3.3/16V (B)
CD24 104
CD23 22/16V (D)
CD27 104
CD26 104
LD31 22uH
CD33 104
CD32 22/6.3V (B)
RD32 4.3 (2012)
CD35 332
CD34 332
RD31 68K
RD30 68K
LD30 22uH
CD31 104
CD30 22/10V (C)
RD47 330
RD46 330
RD37 10K
RD36 4.3 (2012)
CD36 332
CD37 103
CD38 103
CD39 103
H2 H1 RG VL SUB GND VDD
V4 V3 V2 V1 CGG GND VOUT
DCIN VCP XV4 XSG3 XV3 XSG1 XV1 XV2 XSUB GND
DCOUT VHH OV4 OV3 VME OV1 OV2 VEE VSUB VHH
A- NFA A+ VMA GND VCC FLBI FLBO FLAI FLAO PSR OEB CW/CCW PSB STOP
GND B+ NFB B- VMB OSC VG C2H C1H C1L C2L MOB CK MODE RESET
CND01
1 ZOOM LED
2 ZOOM SENSE
3 VCC
4 DR-
5 DA-
6 HALL OUT-
7 HALL IN-
8 HALL OUT+
9 HALL IN+
10 DA+
11 DR+
12 Z.B-
13 Z.B+
14 Z.A+
15 Z.A-
16 FOCUS LED
17 VCC
18 F. SENSE
19 F.B-
20 F.B+
21 F.A+
22 F.A-
FROM/TO
LENS
CND02
1 GND
2 GND
3 GND
4 CCD OUT
5 15V
6 GND
7 XV2
8 XV1
9 XSG1
10 XV3
11 XSG2
12 XV4
13 -7.5V
14 GND
15 XSUB
16 H2
17 H1
18 RG
19 Z.RESET
20 CAM 5V
21 DR-
22 DA-
23 HALL IN+
24 HALL OUT+
25 HALL IN-
26 HALL OUT-
27 DA+
28 DR+
29 FOCUS PSB
30 FOCUS DIR
31 FOCUS CLK
32 UNREG B+
33 FOCUS MOB
34 Z.RESET
35 Z.B-
36 Z.B+
37 Z.A+
38 Z.A-
39 LED PSB
40 GND
FROM/TO
CAMERA MAIN
CNP01
ZL ZS D2 H4 H3 H2 H1 D3 D4 Z1 Z2 Z3 Z4 FL FS
2.2 2.5 12.9 -8.0 7.3 0.0 14.8
7.4 7.4 0.5 0.5 0.0 0.0 8.8
4.6 5.0 4.6 5.0 0.3 0.3 4.9 0.0
14.8 -7.3 -7.3 0.0 -0.5 -0.5 -8.0 -8.0 14.8
5.2 0.2 0.2 7.2 0.0 5.1 0.1 0.1 0.4 0.4 0.0 5.0 5.1 0.0
0.0 3.3 0.2 0.2 7.2 1.6 14.3 12.2 7.5 2.7 2.6 5.1 0.0 5.1 5.1
* Standard voltage is DC.
① ② ③ ④ ⑤ ⑥ ⑦ ⑧

1


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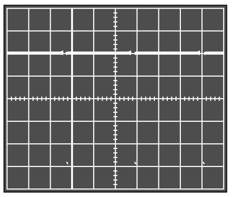
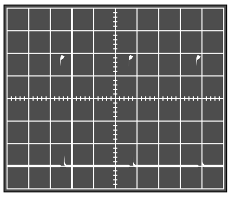


3


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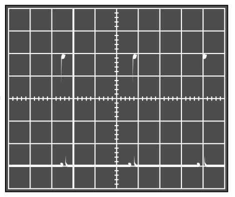

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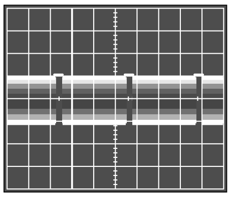

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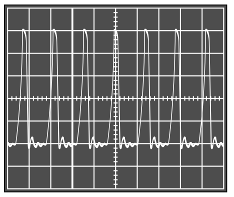
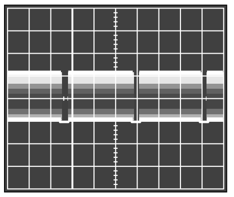
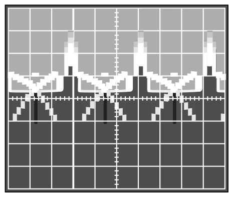
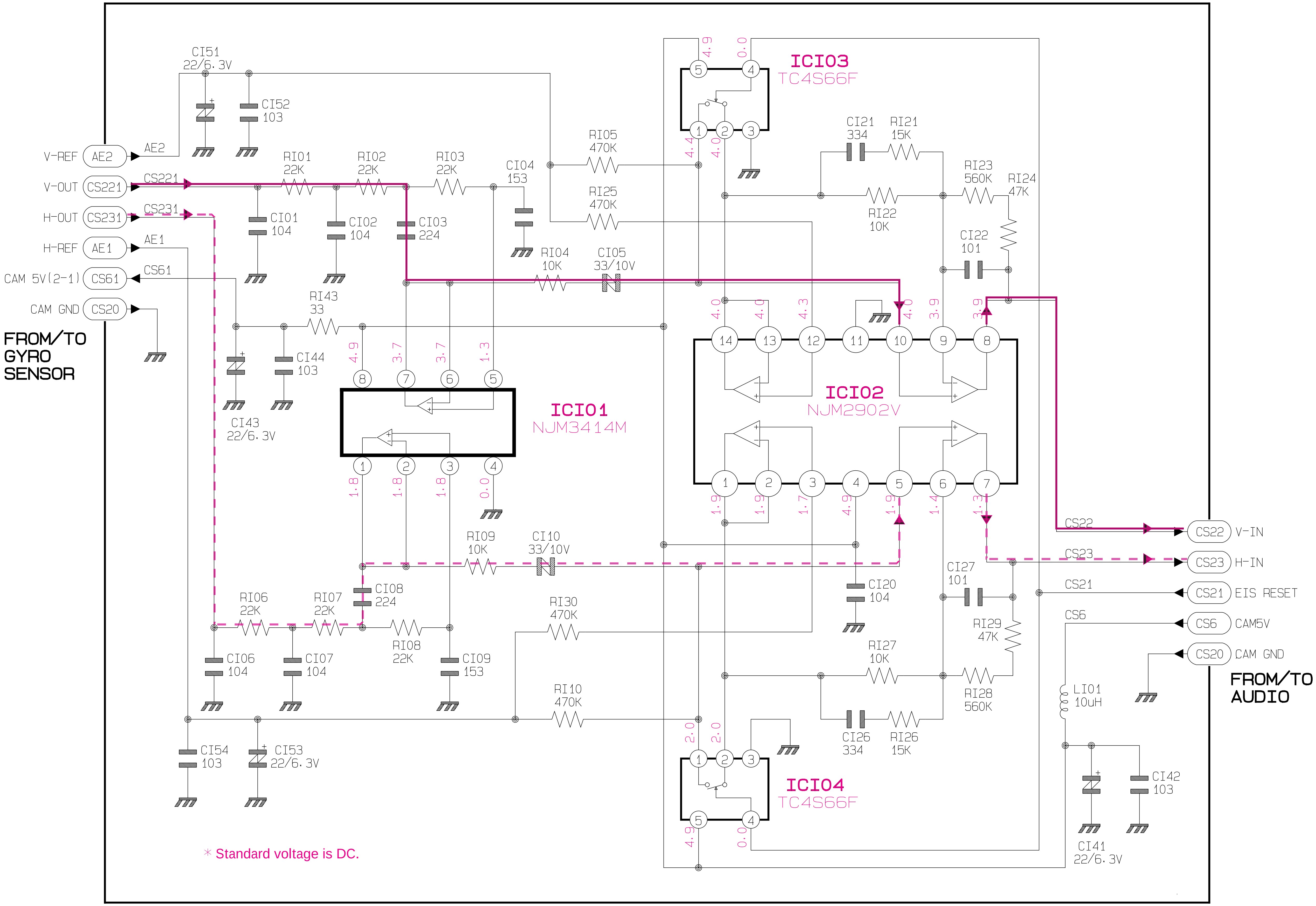


7


8


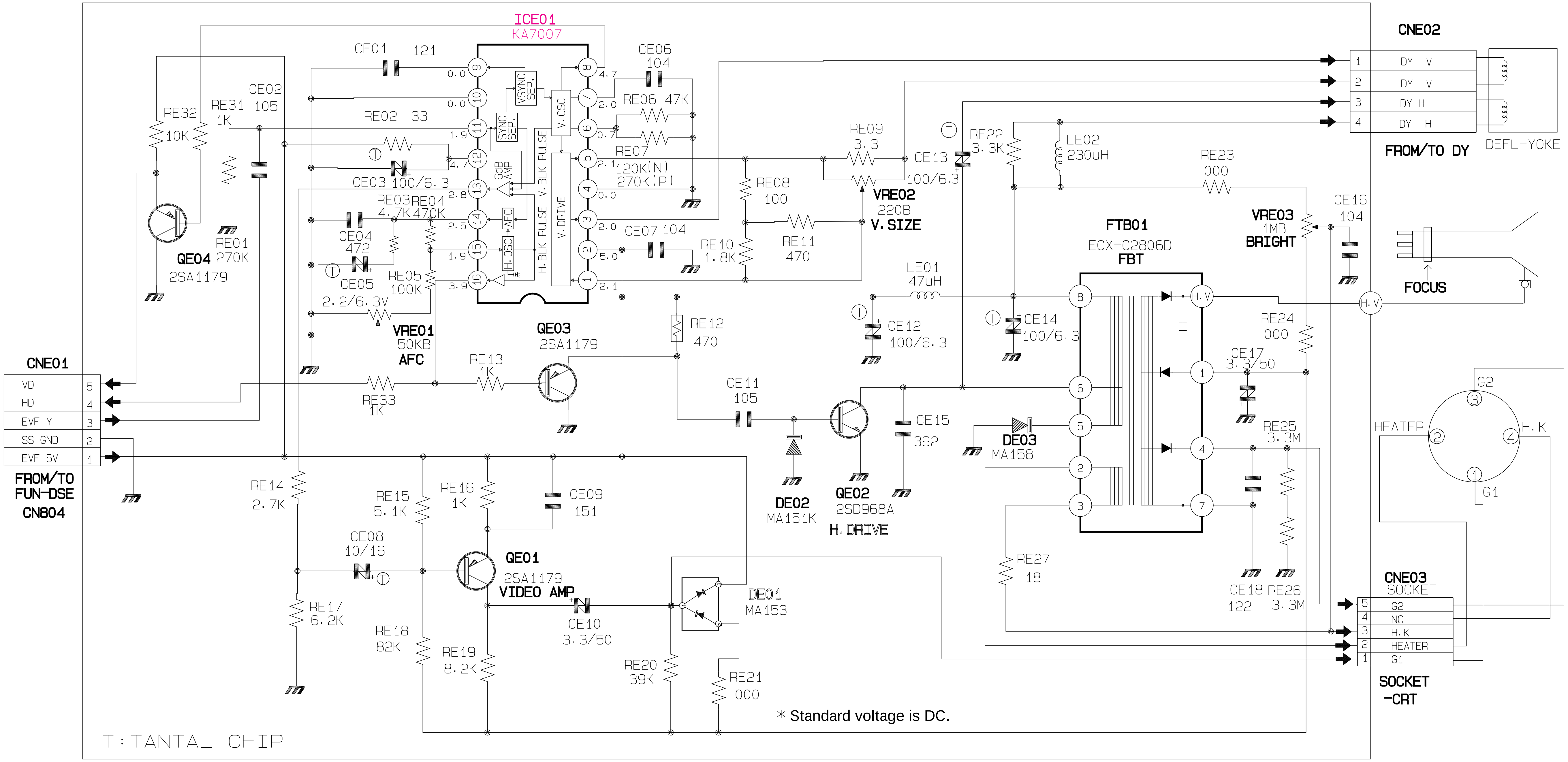
11-10 EIS (VP-A17/VP-A18)

—— V-OUT
- - - - H-OUT


V-REF AE2
V-OUT CS221
H-OUT CS231
H-REF AE1
CAM 5V(2-1) CS61
CAM GND CS20
FROM/TO GYRO SENSOR
AE2
CS221
CS231
AE1
CS61
CI51 22/6.3V
CI52 103
RI01 22K
RI02 22K
RI03 22K
CI04 153
CI01 104
CI02 104
CI03 224
RI04 10K
CI05 33/10V
RI05 470K
RI25 470K
RI43 33
CI44 103
CI43 22/6.3V
ICI01 NJM3414M
4.9 3.7 3.7 1.3
1.8 1.8 1.8 0.0
RI09 10K
CI10 33/10V
RI06 22K
RI07 22K
CI08 224
RI08 22K
RI30 470K
CI06 104
CI07 104
CI09 153
RI10 470K
CI54 103
CI53 22/6.3V
ICI03 TC4S66F
4.9 0.0 4.4 4.0
CI21 334
RI21 15K
RI22 10K
RI23 560K
RI24 47K
CI22 101
ICI02 NJM2902V
4.0 4.0 4.3 4.0 3.9 3.9
1.9 1.9 1.7 4.9 1.9 1.4 1.3
CI20 104
CI27 101
RI29 47K
RI27 10K
RI28 560K
CI26 334
RI26 15K
ICI04 TC4S66F
2.0 2.0 4.9 0.0
CS22 V-IN
CS23 H-IN
CS21 EIS RESET
CS6 CAM5V
CS20 CAM GND
FROM/TO AUDIO
L101 10uH
CI41 22/6.3V
CI42 103

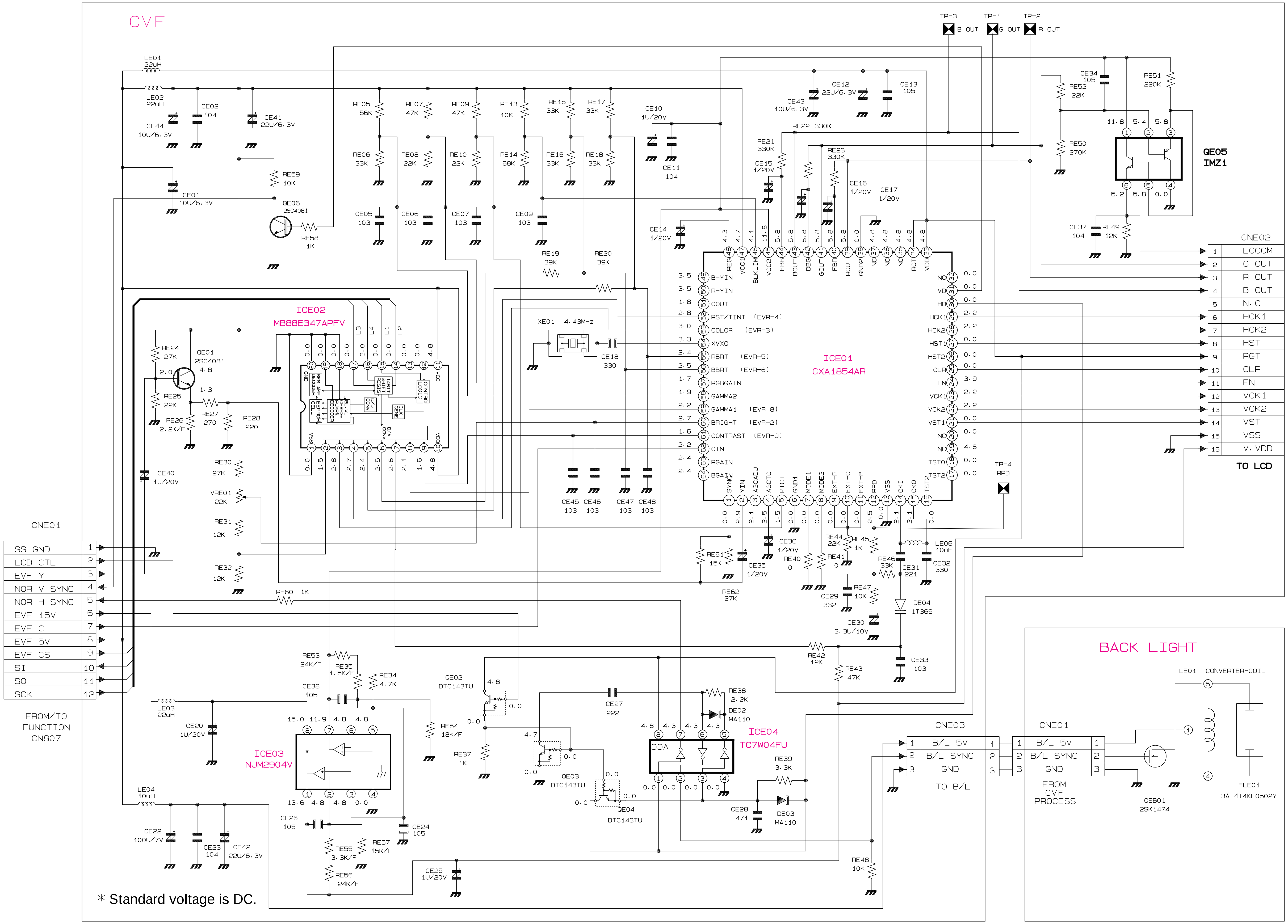
* Standard voltage is DC.

11-11 EVF(VP-A12/VP-A17)


ICE01
KA7007
CE01 121
CE02 105
CE03 100/6.3
CE04 472
CE05 2.2/6.3V
CE06 104
CE07 104
RE06 47K
RE07 120K(N) 270K(P)
RE02 33
RE03 4.7K
RE04 470K
RE05 100K
RE31 1K
RE32 10K
RE01 270K
QE04 2SA1179
VSYNC SEP.
SYNC SEP.
6dB AMP
AFC
H.OSC
V.OSC
V.BLK PULSE
H.BLK PULSE
V.DRIVE
VRE01 50KB AFC
QE03 2SA1179
RE13 1K
RE33 1K
RE09 3.3
RE08 100
RE10 1.8K
RE11 470
VRE02 220B V.SIZE
CE13 100/6.3
RE22 3.3K
LE02 230uH
RE23 000
VRE03 1MB BRIGHT
CE16 104
LE01 47uH
RE12 470
CE12 100/6.3
CE14 100/6.3
CE11 105
CE15 392
DE02 MA151K
QE02 2SD968A H.DRIVE
DE03 MA158
FTB01 ECX-C2806D FBT
H.V
RE24 000
CE17 3.3/50
RE25 3.3M
CE18 122
RE26 3.3M
RE27 18
CNE02
DY V
DY V
DY H
DY H
FROM/TO DY
DEFL-YOKE
FOCUS
HEATER
G2
H.K
G1
CNE03 SOCKET
G2
NC
H.K
HEATER
G1
SOCKET -CRT
CNE01
VD
HD
EVF Y
SS GND
EVF 5V
FROM/TO FUN-DSE CN804
RE14 2.7K
RE15 5.1K
RE16 1K
CE09 151
CE08 10/16
QE01 2SA1179 VIDEO AMP
CE10 3.3/50
DE01 MA153
RE17 6.2K
RE18 82K
RE19 8.2K
RE20 39K
RE21 000
T : TANTAL CHIP

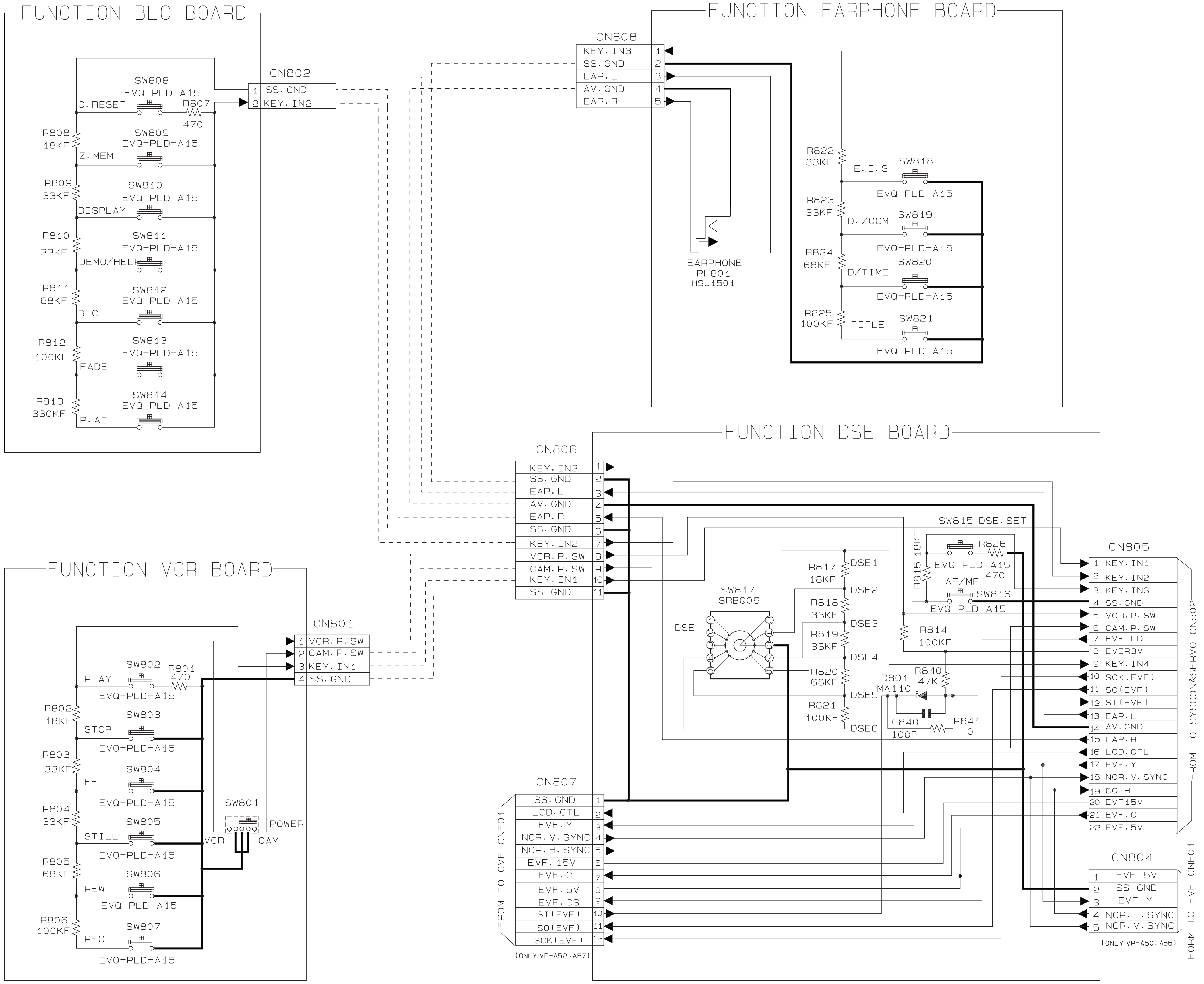
* Standard voltage is DC.

11-12 CVF(VP-A15/VP-A18)

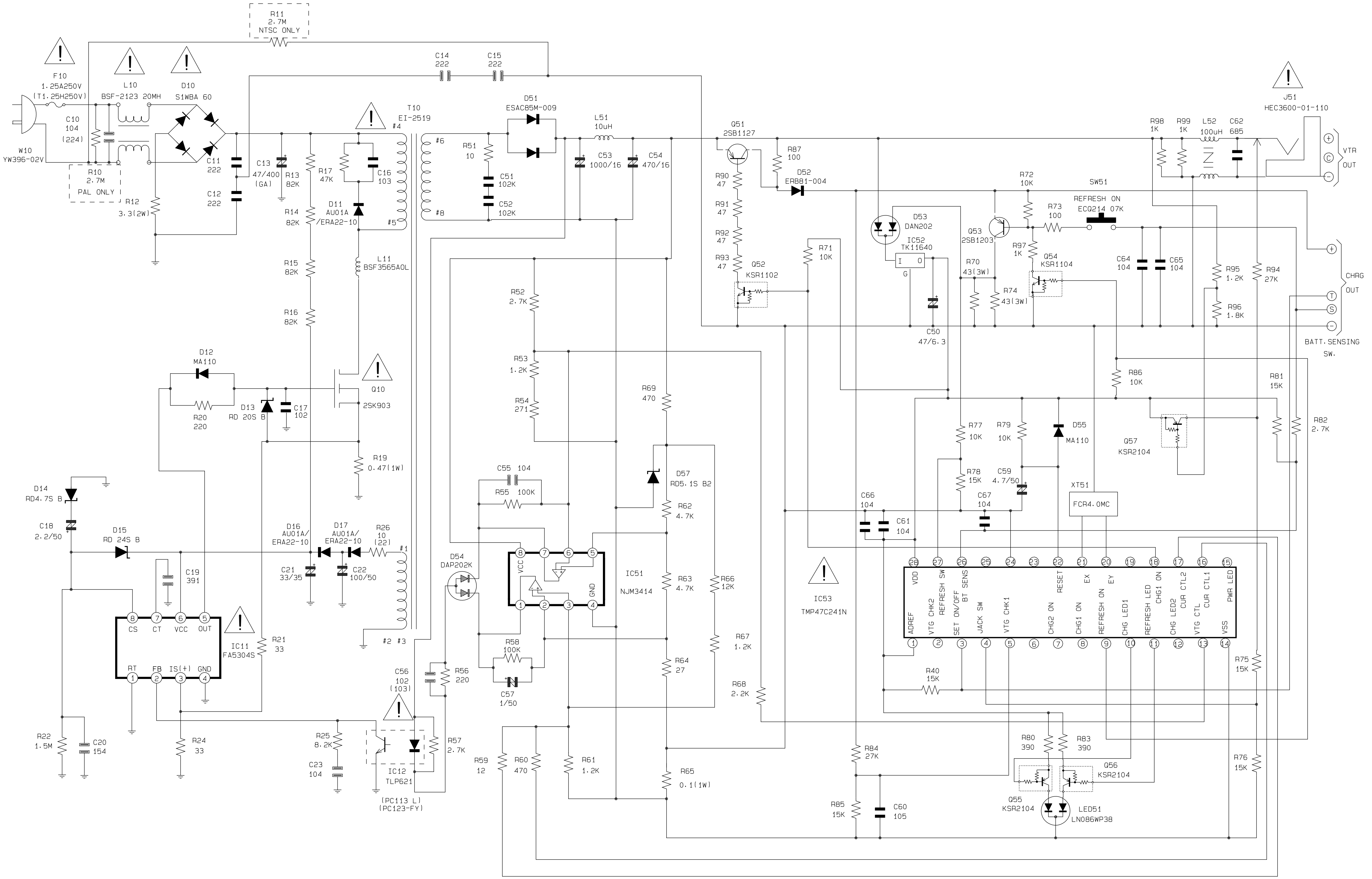

CVF
ICE01
CXA1854AR
ICE02
MB88E347APFV
ICE03
NJM2904V
ICE04
TC7W04FU
QE05
IMZ1
QE01
2SC4081
QE06
2SC4081
QE02
DTC143TU
QE03
DTC143TU
QE04
DTC143TU
XE01 4.43MHz
TP-3 B-OUT
TP-1 G-OUT
TP-2 R-OUT
TP-4 RPD
CNE01
SS GND
LCD CTL
EVF Y
NOR V SYNC
NOR H SYNC
EVF 15V
EVF C
EVF 5V
EVF CS
SI
SO
SCK
FROM/TO FUNCTION CN807
CNE02
LCCOM
G OUT
R OUT
B OUT
N.C
HCK1
HCK2
HST
RGT
CLR
EN
VCK1
VCK2
VST
VSS
V.VDD
TO LCD
BACK LIGHT
CNE03
B/L 5V
B/L SYNC
GND
TO B/L
CNE01
FROM CVF PROCESS
LE01 CONVERTER-COIL
QEB01
2SK1474
FLE01
3AE4T4KL0502Y

* Standard voltage is DC.

11-13 Function


FUNCTION BLC BOARD
SW808
EVQ-PLD-A15
C.RESET
R807
470
R808
18KF
SW809
EVQ-PLD-A15
Z.MEM
R809
33KF
SW810
EVQ-PLD-A15
DISPLAY
R810
33KF
SW811
EVQ-PLD-A15
DEMO/HELP
R811
68KF
SW812
EVQ-PLD-A15
BLC
R812
100KF
SW813
EVQ-PLD-A15
FADE
R813
330KF
SW814
EVQ-PLD-A15
P.AE
CN802
1 SS.GND
2 KEY.IN2
CN808
KEY.IN3 1
SS.GND 2
EAP.L 3
AV.GND 4
EAP.R 5
FUNCTION EARPHONE BOARD
EARPHONE
PH801
HSJ1501
R822
33KF
E.I.S
SW818
EVQ-PLD-A15
R823
33KF
D.ZOOM
SW819
EVQ-PLD-A15
R824
68KF
D/TIME
SW820
EVQ-PLD-A15
R825
100KF
TITLE
SW821
EVQ-PLD-A15
FUNCTION DSE BOARD
CN806
KEY.IN3 1
SS.GND 2
EAP.L 3
AV.GND 4
EAP.R 5
SS.GND 6
KEY.IN2 7
VCR.P.SW 8
CAM.P.SW 9
KEY.IN1 10
SS GND 11
SW815 DSE.SET
R815 18KF
R826
470
EVQ-PLD-A15
AF/MF
SW816
EVQ-PLD-A15
R814
100KF
SW817
SRBQ09
DSE
R817
18KF
DSE1
DSE2
R818
33KF
DSE3
R819
33KF
DSE4
R820
68KF
DSE5
R821
100KF
DSE6
D801
MA110
R840
47K
C840
100P
R841
0
CN805
1 KEY.IN1
2 KEY.IN2
3 KEY.IN3
4 SS.GND
5 VCR.P.SW
6 CAM.P.SW
7 EVF LD
8 EVER3V
9 KEY.IN4
10 SCK(EVF)
11 SO(EVF)
12 SI(EVF)
13 EAP.L
14 AV.GND
15 EAP.R
16 LCD.CTL
17 EVF.Y
18 NOR.V.SYNC
19 CG H
20 EVF15V
21 EVF.C
22 EVF.5V
FROM TO SYSCON&SERVO CN502
CN807
SS.GND 1
LCD.CTL 2
EVF.Y 3
NOR.V.SYNC 4
NOR.H.SYNC 5
EVF.15V 6
EVF.C 7
EVF.5V 8
EVF.CS 9
SI(EVF) 10
SO(EVF) 11
SCK(EVF) 12
FROM TO CVF CNE01
(ONLY VP-A52,A57)
CN804
1 EVF 5V
2 SS GND
3 EVF Y
4 NOR.H.SYNC
5 NOR.V.SYNC
FORM TO EVF CNE01
(ONLY VP-A50,A55)
FUNCTION VCR BOARD
CN801
1 VCR.P.SW
2 CAM.P.SW
3 KEY.IN1
4 SS.GND
PLAY
SW802
R801
470
EVQ-PLD-A15
R802
18KF
STOP
SW803
EVQ-PLD-A15
R803
33KF
FF
SW804
EVQ-PLD-A15
R804
33KF
STILL
SW805
EVQ-PLD-A15
SW801
POWER
VCR
CAM
R805
68KF
REW
SW806
EVQ-PLD-A15
R806
100KF
REC
SW807
EVQ-PLD-A15

11-14 Adaptor


R11
2.7M
NTSC ONLY
F10
1.25A250V
(T1.25H250V)
L10
BSF-2123 20MH
D10
S1WBA 60
C14
222
C15
222
C10
104
(224)
W10
YW396-02V
R10
2.7M
PAL ONLY
R12
3.3(2W)
C11
222
C12
222
C13
47/400
(GA)
R13
82K
R17
47K
C16
103
T10
EI-2519
#4
#5
#6
#8
#1
#2 #3
D11
AU01A
/ERA22-10
R14
82K
R15
82K
R16
82K
L11
BSF3565A0L
D51
ESAC85M-009
R51
10
C51
102K
C52
102K
L51
10uH
C53
1000/16
C54
470/16
Q51
2SB1127
R87
100
D52
ERB81-004
R90
47
R91
47
R92
47
R93
47
Q52
KSR1102
R71
10K
D53
DAN202
IC52
TK11640
I O
G
C50
47/6.3
Q53
2SB1203
R70
43(3W)
R74
43(3W)
R72
10K
R73
100
R97
1K
Q54
KSR1104
SW51
REFRESH ON
ECQ214 07K
C64
104
C65
104
R98
1K
R99
1K
L52
100uH
C62
685
J51
HEC3600-01-110
VTR
OUT
CHRG
OUT
T
S
BATT.SENSING
SW.
R95
1.2K
R96
1.8K
R94
27K
D12
MA110
R20
220
D13
RD 20S B
C17
102
Q10
2SK903
R19
0.47(1W)
R52
2.7K
R53
1.2K
R54
271
R69
470
D57
RD5.1S B2
R62
4.7K
R63
4.7K
R64
27
R65
0.1(1W)
R66
12K
R67
1.2K
R68
2.2K
R86
10K
R81
15K
R82
2.7K
Q57
KSR2104
R77
10K
R79
10K
D55
MA110
R78
15K
C59
4.7/50
C66
104
C61
104
C67
104
XT51
FCR4.0MC
D14
RD4.7S B
C18
2.2/50
D15
RD 24S B
C19
391
D16
AU01A/
ERA22-10
D17
AU01A/
ERA22-10
R26
10
(22)
C21
33/35
C22
100/50
C55 104
R55 100K
D54
DAP202K
IC51
NJM3414
VCC
GND
R58
100K
C57
1/50
IC11
FA5304S
CS CT VCC OUT
RT FB IS(+) GND
R21
33
R22
1.5M
C20
154
R24
33
C56
102
(103)
R56
220
R25
8.2K
C23
104
IC12
TLP621
(PC113 L)
(PC123-FY)
R57
2.7K
R59
12
R60
470
R61
1.2K
IC53
TMP47C241N
VDD
VTG CHK2
REFRESH SW
BT SENS
RESET
EX
EY
REFRESH LED
CHG1 ON
CUR CTL2
CUR CTL1
PWR LED
ADREF
SET ON/OFF
JACK SW
VTG CHK1
CHG2 ON
CHG1 ON
REFRESH ON
CHG LED1
CHG LED2
VTG CTL
VSS
R40
15K
R75
15K
R76
15K
R84
27K
R85
15K
C60
105
R80
390
R83
390
Q55
KSR2104
Q56
KSR2104
LED51
LN086WP38